

Appendix I

Guide to — Sources of Statistics, State Statistical Abstracts, and Foreign Statistical Abstracts

Alphabetically arranged by subject, this guide contains references to the important primary sources of statistical information for the United States. Secondary sources have been included if the information contained in them is presented in a particularly convenient form or if primary sources are not readily available. Nonrecurrent publications presenting compilations or estimates for years later than 1978 or types of data not available in regular series are also included.

Much valuable information may also be found in State reports (see pp. 883-887) and foreign statistical abstracts (see pp. 888 and 889) and in reports for particular commodities, industries, or similar segments of our economic and social structures, many of which are not included here.

Publications listed under each subject are divided into two main groups: "U.S. Government" and "Other." The location of the publisher of each report is given except for Federal agencies located in Washington, DC. Most Federal publications may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, tel. (202) 783-3238, or from Government Printing Office bookstores in certain major cities. In some cases, Federal publications may be obtained from the issuing agency.

Major reports, such as the Census of Population, which consist of many volumes, are listed by their general, all-inclusive titles.

Bureau of the Census Publications

In most cases, separate reports of the most recent censuses are available for each State, subject, industry, etc. Complete information on publications of all the censuses and current surveys conducted by the Bureau of the Census appears in the *Bureau of the Census Catalog*, published annually and available from the Superintendent of Documents.

Abortions—see Vital Statistics.

Accidents—see also Health; Insurance; and Vital Statistics

U.S. Government

Bureau of Labor Statistics

Handbook of Labor Statistics. Periodic. (1985, most recent.)

Injuries to Construction Laborers. 1986. (Bulletin No. 2252.)

Injuries in the Logging Industry. 1984. (Bulletin No. 2203.)

Injuries Resulting From Falls From Elevations. 1984. (Bulletin No. 2195.)

Injuries Resulting From Falls On Stairs. 1984. (Bulletin No. 2214.)

Injuries to Warehouse Workers. 1986. (Bulletin No. 2257.)

Occupational Injuries and Illnesses in the United States by Industry. Annual.

Department of Transportation

Transportation Safety Information Report. Quarterly.

Federal Railroad Administration

Accident/Incident Bulletin. Summary, statistics, and analysis of accidents on railroads in the United States. Annual.

Accidents—Con.

U.S. Government—Con.

Federal Railroad Administration—Con.

Rail-Highway Crossing Accident/Incident and Inventory Bulletin. Annual.

Mine Safety and Health Administration

Informational Reports by Mining Industry: Coal; Metallic Minerals; Nonmetallic Minerals (except stone and coal); Stone, Sand, and Gravel. Annual.

Mine Injuries and Worktime. (Preliminary data.) Quarterly.

National Center for Health Statistics

Vital Statistics of the United States. Annual.

National Transportation Safety Board

Accidents. Annual.

Other

Metropolitan Life Insurance Company, New York, NY

Health and Safety Education.

Statistical Bulletin. Quarterly.

Accidents—Con.*Other—Con.*

National Fire Protection Association,
Quincy, MA
Fire Journal. Bimonthly.

National Safety Council, Chicago, IL
Accident Facts. Annual.

Agriculture—see also Food; Foreign Commerce; Labor; Money and Banking; and Population

U.S. Government

Bureau of the Census
Census of Agriculture. Quinquennial.
(1987, most recent.)

U.S. Commodity Exports and Imports as
Related to Output. Annual. (Series
ES2.)

Bureau of the Census and Bureau of Mines
Raw Materials in the United States Economy;
1900-1977. (Issued 1980. Working
Paper No. 47.)

Bureau of Reclamation
Annual Report.

Summary Statistics:

Vol. I, Water, Land, and Related Data.

Vol. II, Finances and Physical Features.

Vol. III, Project Data.

Commodity Futures Trading Commission
Annual Report.

Commitments of Traders in Commodity
Futures. Monthly.

Department of Agriculture

Agricultural Chartbook. Annual.

Agricultural Economics Research. Quarterly.

Agricultural Finance and Outlook Situation. Annual.

Agricultural Finance Statistics, 1960-83.
(Statistical Bulletin No. 706.) April
1984.

Agricultural Outlook. 11 issues per year.

Agricultural Price Reports. Reports on
prices received for farm commodities,
prices paid for farm supplies, indexes
and parity ratios. Monthly and annual.

Agricultural Statistics. Annual.

Conversion Factors and Weights and
Measures for Agricultural Commodities
and Products. March 1979. (Statistical
Bulletin No. 616.)

Crop Production Reports. Acreage, yield,
and production of various commodities.
Monthly and annual.

Crop Values Report. Price and value of
various commodities. Annual.

Agriculture—Con.*U.S. Government—Con.*

Department of Agriculture—Con.

Economic Indicators of the Farm Sector.
A series of 5 annual issues.

Farmline. 11 issues per year.

Food Consumption, Prices, and Expenditures,
1985. (Statistical Bulletin No. 749.)
Revised annually.

Foreign Agricultural Trade of the United
States (FATUS). 6 issues with annual
supplements on calendar year and
fiscal year trade data.

Fruit and Vegetable Reports. Acreage,
yield, production, value, and utilization
of various fruits and vegetables. Periodic.

The Hired Farm Working Force of 1981.
(Agricultural Economic Report No. 507.)

Landownership in the United States.
1978. (Agricultural Economic Report
No. 435.)

Livestock and Livestock Products. Reports
pertaining to cattle, cattle on feed,
hogs and pigs, lamb crop, livestock
slaughter, sheep and goats, and
wool and mohair. Periodic.

Major Uses of Land in the United States,
1982. 1985.

Milk and Dairy Products Reports. Milk
cows, milk production, and dairy products.
Monthly and annual.

Other Reports. Reports on varied items
including cold storage, farm employment
and wages, farm production expenditures,
mink, mushrooms, and floriculture crops.
Monthly and annual.

Poultry and Egg Reports. Reports covering
eggs, chickens, turkeys, hatcheries,
egg products, and poultry slaughter.
Weekly, monthly, annual.

Rural Development Perspectives. 3
issues per year.

Situation Reports. Issued for cotton and
wool, dairy, feed, fruit, inputs, livestock
and poultry, oil crops, rice, sugar and
sweeteners, tobacco, vegetables,
wheat, and world agriculture. Monthly,
quarterly, annual.

Statistics of Farmer Cooperatives.
Annual.

Statistics on Oilseeds and Related Data,
1965-82. (Statistical Bulletin No. 695.)

Stock Reports. Stocks of grain, hops,
peanuts, potatoes, rice, and soybeans.
Quarterly, annual, periodic.

Weekly Weather and Crop Bulletin.
Report summarizing weather and its
effect on crops the previous week.

Agriculture—Con.*U.S. Government—Con.*

Farm Credit Administration
Annual Report.
Loans and Discounts of Farm Credit
Banks and Associations. Annual.

National Oceanic and Atmospheric Admin-
istration
Weekly Weather and Crop Bulletin. Na-
tional summary.

Soil Conservation Service
National Resources Inventory, 1982.
Periodic.
Report of Administrator of Soil Conserva-
tion Service. Annual.

Air Force—*see* National Defense.

Air Pollution—*see* Environment.

Aliens—*see* Immigration.

American Samoa—*see* Outlying Areas.

Area—*see* Geography.

Army—*see* National Defense.

Aviation—*see* Transportation.

Banks and Banking—*see* Money.

Births—*see* Vital Statistics.

Broadcasting—*see* Communications.

Building Permits—*see* Construction.

**Business—*see also* Economic Indexes; Invest-
ments; Manufactures; Retail and Wholesale
Trade; Science Resources; and Service Es-
tablishments**

U.S. Government

Administrative Office of the United States
Courts

Annual Report of the Director.

Board of Governors of the Federal Reserve
System
Federal Reserve Bulletin. Monthly.

Bureau of the Census
Census of Retail Trade. Quinquennial.
(1982, most recent.)
Census of Service Industries. Quinquen-
nial. (1982, most recent.)
Census of Wholesale Trade. Quinquenni-
al. (1982, most recent.)
County Business Patterns. Annual.

Characteristics of Business Owners.
1982.

Current Business Reports. Retail Trade,
Sales, and Inventories, BR; and Whole-
sale Trade, Sales, and Inventories,
BW.

Business—Con.*U.S. Government—Con.*

Bureau of the Census—Con.

Minority-Owned Businesses. Quinquenni-
al. (1982, most recent.)

Quarterly Financial Report for Manufac-
turing, Mining, and Trade Corporations.

Bureau of Economic Analysis

Business Conditions Digest. Monthly.

Business Statistics: 1986. 1987.

The Detailed Input-Output Structure of
the U.S. Economy, 1977. 1984.

Fixed Reproducible Tangible Wealth in
the United States, 1925-79. 1982.

Handbook of Cyclical Indicators. 1984.

The National Income and Product Ac-
counts of the United States, 1929-
1982: Statistical Tables. 1986.

Selected Data on U.S. Direct Investment
Abroad, 1950-79. 1985.

Summary Input-Output Tables of the U.S.
Economy: 1976, 1978, and 1979.
1983. (Staff Paper No. 39.)

Survey of Current Business. Monthly.

Council of Economic Advisers

Economic Indicators. Monthly.

Economic Report of the President.
Annual.

Federal Trade Commission

Mergers & Acquisitions, 1972-1974.
1978.

Internal Revenue Service

Statistics of Income.

Corporation Income Tax Returns.
Annual.

Statistics of Income Bulletin. Quarterly.

International Trade Administration

U.S. Industrial Outlook. Annual.

Patent and Trademark Office

Commissioner of Patents and Trade-
marks Annual Report.

Patenting Trends in the United States,
State Country Report, 1963-1987.

Securities and Exchange Commission

Annual Report.

Statistical Review. Monthly.

Small Business Administration

Annual Report.

Other

The Conference Board, New York, NY
Economic Road Maps. Monthly.

Business—Con.*Other—Con.*

The Dun & Bradstreet Corporation, New York, NY

The Business Failure Record. Annual.

Monthly Business Starts Report.

Monthly Business Failure Report.

Monthly New Business Incorporations Report.

Quarterly Survey of Business Expectations.

Fortune (Time, Inc.), New York, NY

The Fortune Directory of the 500 Largest Industrial Corporations. (Annual supplement to Fortune.)

National Bureau of Economic Research, Cambridge, MA

Financial Aspects of the United States Pension System, Zvi Bodie and John B. Shoven, editors. 1983. (University of Chicago Press, Chicago, IL.)

The U.S. National Income and Product Accounts: Selected Topics, Murray F. Foss, editor. 1982. (Studies in Income and Welfare, No. 47.) (University of Chicago Press, Chicago, IL.)

Child Welfare—*see* Education; *and* Social Insurance.

City Government—*see* State and Local Government.

Civil Service—*see* Federal Government; *and* State and Local Government.

Climate—*see also* Agriculture

U.S. Government

National Oceanic and Atmospheric Administration

Climatology of the United States, No. 20, Supplement No. 1, Freeze/Frost Data.

Climatology of the United States, No. 81: Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1951-80. 1982. Issued by State.

Climatological Data. Issued in sections for States and outlying areas. Monthly with annual summary.

Comparative Climatic Data Through 1987.

General Summary of Tornadoes. Annual. Hourly Precipitation Data. Monthly with annual summary; for each State.

Local Climatological Data. Monthly with annual summary; for major cities.

Storm Data. Monthly.

Weekly Weather and Crop Bulletin. National summary.

Commerce—*see* Foreign Commerce; Retail and Wholesale Trade; *and* Transportation.

Commodity Prices—*see also* Economic Indexes

U.S. Government

Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

Bureau of Labor Statistics

Consumer Prices: Energy and Food. Monthly.

CPI Detailed Report. Monthly.

Handbook of Labor Statistics. Periodic. (1985, most recent.)

Monthly Labor Review.

Producer Price Indexes. Monthly, with annual supplement.

Relative Importance of Components in the Consumer Price Indexes. Annual.

U.S. Import and Export Price Indexes. Quarterly.

Department of Agriculture

Agricultural Price Reports. Monthly and annual.

Agricultural Statistics. Annual.

Other

Commodity Research Bureau, a Knight-Ridder Business Information Service, New York, NY

Commodity Year Book Statistical Abstract Service. (3 editions annually.)

CRB Commodity Index Report. Weekly.

CRB Commodity Year Book. Annual.

CRB Futures Chart Service. Weekly.

CRB Outlook. Monthly.

Electronic Futures Trend Analyzer. Daily.

Futures Market Service. Weekly.

Morgan Guaranty Trust Company of New York

World Financial Markets

Wall Street Journal. (Dow Jones & Co., New York, NY.) Daily except Saturdays, Sundays, and holidays.

Communications—*see also* Newspapers

U.S. Government

Federal Communications Commission
Annual Report.

Statistics of Communications Common Carriers. Annual.

Rural Electrification Administration

Annual Statistical Report—Rural Telephone Borrowers.

Communications—Con.*U.S. Government—Con.*

- U.S. Postal Service
Annual Report of the Postmaster General.
- Cost and Revenue Analysis. Annual.

Other

- John Blair & Company, New York, NY
Statistical Trends in Broadcasting. Annual.
- Book Industry Study Group, Inc., New York, NY
Book Industry Trends. Annual.
- Broadcasting Publications, Inc., Washington, DC
Broadcasting Magazine. Weekly.
Broadcasting Cablecasting Yearbook.
- Corporation for Public Broadcasting, Washington, DC
Average Revenue Profiles for Public Broadcasting Stations.
Public Broadcasting Income. Annual.
Public Broadcasting Stations' Income from State Governments and State Colleges & Universities Ranked State-By-State.
Public Broadcasting: Statistical Brief. Annual.
- Public Radio and Television Programming Content by Category. Biennial.
- Summary Statistical Report of PTV Licensees. Annual.
- Summary Statistical Report of Public Radio Stations. Annual.
- Editor & Publisher Co., New York, NY
International Year Book. Annual.
Market Guide. Annual.
- Electronic Industries Association, Washington, DC
Electronic Market Data Book. Annual.
Electronic Market Trends. Monthly.
Electronics Foreign Trade. Monthly.
Electronics Foreign Trade Five-Year Summary. Annual.
- Radio Advertising Bureau, New York, NY
Radio Facts. Annual.
- United States Telephone Association, Washington, DC
Statistics of the Independent Telephone Industry. Annual.
- Warren Publishing, Inc., Washington, DC
Cable Action Update. Weekly.
Cable and Station Coverage Atlas. Annual.
Television Action Update. Weekly.

Communications—Con.*Other—Con.*

- Warren Publishing, Inc., Washington, DC—Con.

Television and Cable Factbook. Annual.

Construction, Housing, and Real Estate—see also Money and Roads*U.S. Government*

- Board of Governors of the Federal Reserve System
Federal Reserve Bulletin. Monthly.
- Bureau of Census
Census of Construction Industries. Quinquennial. (1982, most recent.)
Census of Housing. Decennial. (1980, most recent.)
Current Construction Reports: Housing Starts, C20 (monthly); New Residential Construction in Selected Metropolitan Statistical Areas, C21 (quarterly); Housing Completions, C22 (monthly); New One-Family Houses Sold and for Sale, C25 (monthly with annual report, Characteristics of New Housing); Price Index of New One-Family Houses Sold, C27 (quarterly); Value of New Construction Put in Place, C30 (monthly with occasional historical supplement); Housing Units Authorized by Building Permits, C40 (monthly and annual); Residential Alterations and Repairs, C50 (Quarterly and annual).
- Current Housing Reports: Housing Vacancies, H-111 (quarterly and annual); Market Absorption of Apartments, H-130 (quarterly and annual); Characteristics of Apartments Completed, H-131 (annual); Annual Housing Survey, H-150 (series of six biennial reports); Annual Housing Survey—Housing Characteristics for Selected Metropolitan Areas, H-170.
- Social Indicators, 1980.
- Bureau of Economic Analysis
Business Conditions Digest. Monthly.
Business Statistics: 1986, 1987.
Fixed Reproducible Tangible Wealth in the United States, 1925-79. 1982.
Handbook of Cyclical Indicators. 1984.
The National Income and Product Accounts of the United States, 1929-82: Statistical Tables. 1986.
New Structures and Equipment by Using Industries, 1972: Detailed Estimates and Methodology. 1980. (Staff Paper No. 35.)
Survey of Current Business. Monthly.
- Bureau of Labor Statistics
Current Wage Developments. Monthly.

**Construction, Housing, and Real Estate—
Con.***U.S. Government—Con.***Bureau of Labor Statistics—Con.**

- Employment and Earnings. Monthly.
- Employment, Hours, and Earnings, United States, 1909-84. 1985. (Bulletin No. 1312-12.)
- Injuries to Construction Laborers. 1986. (Bulletin No. 2252.)
- Monthly Labor Review.
- Occupational Employment in Mining, Construction, Finance, and Services. 1986. (Bulletin No. 2264.)
- Occupational Injuries and Illnesses in the United States by Industry. Annual.

Department of Housing and Urban Development

Statistical Yearbook. (Discontinued with 1979 edition.)

Survey of Mortgage Lending Activity. Monthly and quarterly press releases.

Energy Information Administration

Residential Energy Consumption Survey: Housing Characteristics. Triennial.

Federal Home Loan Bank Board

Annual Report.

Savings and Home Financing Source Book. Annual.

International Trade Administration

Construction Review. Bimonthly.

Veterans Administration

Loan Guaranty Highlights. Quarterly.

Other

Dodge, F.W., National Information Services Division, McGraw-Hill Information Systems Co., New York, NY

Dodge Construction Potentials. Monthly.

NATIONAL ASSOCIATION OF REALTORS, Washington, DC

Existing Home Sales. Monthly.

Whitman, Requardt and Associates, Baltimore, MD

The Handy-Whitman Index of Public Utility Construction Costs. Semiannual.

**Consumer Income and Expenditures, and
Personal Income—see also Agriculture;
Economic Indexes; Investments; and National Income***U.S. Government*

Board of Governors of the Federal Reserve System

Federal Reserve Bulletin. Monthly.

**Consumer Income and Expenditures, and
Personal Income—Con.***U.S. Government—Con.***Bureau of the Census**

Census of Population. Decennial. (1980, most recent.)

Current Population Reports. (Series on Consumer Income, P-60.)

Current Population Reports. (Series on Household Economic Studies, P-70.)

Special Studies Reports. (Series on Special Studies, P-23.)

Bureau of Economic Analysis

Business Conditions Digest. Monthly.

Business Statistics: 1986. 1987.

Handbook of Cyclical Indicators. 1984.

Local Area Personal Income, 1979-84. Annual personal income by type of income and by major industries, and population, and per capita income, for States, counties, and metropolitan areas. Nine volumes. 1986.

Survey of Current Business. Monthly.

Bureau of Labor Statistics

Consumer Expenditure Survey: Interview Survey, 1984. 1986. (Bulletin No. 2267.)

Handbook of Labor Statistics. Periodic. (1985, most recent.)

Congressional Budget Office

Trends in Family Income: 1970-1986. February 1988.

Internal Revenue Service

Statistics of Income.

Individual Income Tax Returns. Annual.

Statistics of Income Bulletin. Quarterly.

National Science Foundation

Characteristics of Doctoral Scientists and Engineers in the United States. Detailed Statistical Tables. Biennial.

Characteristics of Recent Science/Engineering Graduates. Detailed Statistical Tables. Biennial.

Science Resources Studies Highlights. Frequent.

More Recent Science and Engineering (S/E) Graduates Finding S/E Jobs. (NSF 88-310.)

Scientists and Engineers Now Account for Over 4 Percent of Total U.S. Employment. (NSF 87-313.)

Women and Minorities in Science and Engineering. Report. Biennial.

Social Security Administration

Studies in Income Distribution. (A series of studies presenting information on the distribution of income, taxes, and

Consumer Income and Expenditures, and Personal Income—Con.*U.S. Government—Con.*

Social Security Administration—Con.

transfer payments.) (November 1979, most recent.)

Trends since 1960 in the Economic Status of Aged Men and Women. (Research and Statistics Note No. 3. 1983.)

Other

American Financial Services Association, Washington, DC

AFSA Annual Research Report and Second Mortgage Lending Report on Finance Companies. Annual.

AFSA Annual Research Report and Second Mortgage Lending Report Supplements. Annual.

Finance Facts Yearbook. Annual.

Consumer Prices—*see* Commodity Prices.

Corporations—*see* Business; *and* Manufactures.

Correctional Institutions—*see* Law Enforcement

Cost of Living—*see* Commodity Prices.

Courts—*see* Law Enforcement.

Crime—*see* Law Enforcement.

Crops—*see* Agriculture.

Deaths—*see* Vital Statistics.

Defense—*see* National Defense.

Divorce—*see* Vital Statistics.

Domestic Trade—*see* Retail and Wholesale Trade; *and* Service Establishments.

Economic Indexes—*see also* Agriculture; Business; Commodity Prices; *and* Manufactures

U.S. Government

Board of Governors of the Federal Reserve System

Federal Reserve Banks. Monthly review published by each Bank with special reference to its own Federal Reserve District.

Federal Reserve Bulletin. Monthly. (Also monthly releases on industrial production indexes.)

Bureau of Economic Analysis

Business Conditions Digest. Monthly.

Business Statistics: 1986, 1987.

Handbook of Cyclical Indicators. 1984.

The National Income and Product Accounts of the United States, 1929-82: Statistical Tables. 1986.

Survey of Current Business. Monthly.

Economic Indexes—Con.*U.S. Government—Con.*

Bureau of Labor Statistics

Handbook of Labor Statistics. Periodic. (1985, most recent.)

Monthly Labor Review.

Council of Economic Advisers

Economic Indicators. Monthly.

Economic Report of the President. Annual.

National Science Foundation

Academic Science/Engineering: Graduate Enrollment and Support. Detailed Statistical Tables. Annual.

Academic Science/Engineering: R&D Funds. Detailed Statistical Tables. Annual.

A Comparative Analysis of Information on National Industrial R&D Expenditures. Special Report. (NSF 85-311.)

Federal Funds for Research and Development. Detailed Statistical Tables. Annual.

Federal R&D Funding by Budget Function. Report. Annual.

Federal Support to Universities, Colleges, and Selected Nonprofit Institutions. Detailed Statistical Tables. Annual.

International Science and Technology Data Update. Report. Annual.

National Patterns of Science and Technology Resources. Report. Annual.

Research and Development in Industry. Detailed Statistical Tables. Annual.

Science and Engineering Indicators. Report. Biennial.

Science Resources Studies Highlights. Frequent.

Industrial Technology R&D Performance Increased an Estimated 12 Percent in 1987 to \$1.4 Billion. (NSF 88-306.)

Real Increase in 1988 National Funds Estimated at Lowest Rate in Eleven Years. (NSF 88-303.)

Science and Technology Data Book. Report. Annual.

The Science and Technology Resources of West Germany: A Comparison With the United States. Special Report. (NSF 86-310.)

The Science and Technology Resources of Japan: A Comparison With the United States. Special Report. (NSF 88-318.)

Economic Indexes—Con.*Other*

Business Week. (Billboard Publications, Inc., New York, NY.) (Index of Business Activity.)

The Conference Board, New York, NY

The Conference Board Statistical Bulletin. Monthly.

National Bureau of Economic Research, Cambridge, MA

The National Balance Sheet of the United States, 1953-80, by Raymond W. Goldsmith. 1982. (University of Chicago Press, Chicago, IL.)

The U. S. National Income and Product Accounts: Selected Topics, Murray F. Foss, editor. 1982. (Studies in Income and Wealth, No. 47.) (University of Chicago Press, Chicago, IL.)

Education—see also Science Resources; and Vocational Rehabilitation

U.S. Government

Bureau of the Census

Census of Population. Decennial. (1980, most recent.)

Current Population Reports. (Series on Population Characteristics, P-20; and Special Studies, P-23.)

Finances of Public School Systems. Annual. (GF No. 10.)

Bureau of Labor Statistics

Educational Attainment of Workers, March 1982-83. 1984. (Bulletin No. 2191.)

Handbook of Labor Statistics. Periodic. (1985, most recent.)

How Workers Get Their Training. 1985. (Bulletin No. 2226.)

Labor Force Statistics Derived From the Current Population Survey, 1948-87. 1988. (Bulletin No. 2307.)

Occupational Projections and Training Data. Biennial.

Students, Graduates, and Dropouts, October 1980-82. 1983. (Bulletin No. 2192.)

Department of Education

Annual Report.

Inflation Measures for Schools and Colleges. September 1983.

Employment and Training Administration

Employment and Training Report of the President. Annual.

National Center for Education Statistics

Associate Degrees and Other Formal Awards Below the Baccalaureate. Annual.

Education—Con.*U.S. Government—Con.*

National Center for Education Statistics—Con.

College and University Library Survey. (1985, most recent.)

The Condition of Education. Annual.

Digest of Education Statistics. Annual.

Earned Degrees Conferred. Annual.

Faculty Salaries, Tenure, and Benefits. Annual.

Fall Enrollment in Colleges and Universities. Annual.

National Longitudinal Study. Reports issued 1972-78 on high school seniors from class of 1972 and their transition to higher education and the labor force.

Participation in Adult Education. (1984, most recent.)

Projections of Education Statistics. Biennial.

Residence and Migration of College Students. (1984, most recent.)

Revenues and Expenditures for Public Elementary and Secondary Education. Annual.

National Science Foundation

Academic Science/Engineering: Graduate Enrollment and Support. Detailed Statistical Tables. Annual.

Academic Science/Engineering: R&D Funds. Detailed Statistical Tables. Annual.

Characteristics of Doctoral Scientists and Engineers in the United States. Detailed Statistical Tables. Biennial.

Characteristics of Recent Science/Engineering Graduates. Detailed Statistical Tables. Biennial.

Federal Support to Universities, Colleges, and Selected Nonprofit Institutions. A report to the President and Congress. Detailed Statistical Tables. Annual.

National Patterns of Science and Technology Resources. Report. Annual.

Profiles—Chemistry: Human Resources and Funding. Special Report. (NSF 87-307.)

Profiles—Mechanical Engineering: Human Resources and Funding. Special Report. (NSF 87-309.)

Resources Supporting Scientific and Engineering Activities at Historically Black Colleges and Universities. Special Report. (NSF 84-332.)

Science and Engineering Doctorates: 1960-86. Detailed Statistical Tables. Annual.

Science and Engineering Indicators. Report. Biennial.

Education—Con.*U.S. Government—Con.***National Science Foundation—Con.**

Science and Engineering Personnel: A National Overview. Report. Biennial.

Science and Technology Data Book. Report. Annual.

Science Resources Studies Highlights. Frequent.

Academic R&D Expenditures Expected to Continue Substantial Growth Through FY 1986. (NSF 87-302.)

Foreign Students Fueled 2% Rise in 1985 Graduate Science and Engineering Enrollment. (NSF 87-306.)

Real Growth in Academic R&D Spending Slowed to 2% in FY 1987, Down from 9% in 1986. (NSF 88-314.)

Real Increase in 1988 National R&D Funds Estimated at Lowest Rate in Eleven Years. (NSF 88-303.)

Recent-Doctorate Faculty Increase in Engineering and Some Science Fields. (NSF 87-310.)

Women and Minorities in Science and Engineering. Report. Biennial.

Office for Civil Rights

Racial, Ethnic and Sex Enrollment Data, From Institutions of Higher Education. Fall 1982. Biennial.

State and National Summaries of Data from the Fall 1982 Civil Rights Survey of Elementary and Secondary Schools. Biennial.

Other

American Council on Education, Washington, DC

A Fact Book on Higher Education. Quarterly.

National Norms for Entering College Freshmen. Annual.

Bowker (R.R.) Company, New York, NY

American Library Directory. Annual.

Book Publishing Annual. (1985, most recent.)

The Bowker Annual of Library and Book Trade Information.

Chronicle of Higher Education, Inc., Washington, DC

Almanac. Annual.

College Entrance Examination Board, New York, NY

National Report on College-Bound Seniors. Annual.

National Catholic Educational Association, Washington, DC

Catholic Schools in America. Annual.

Education—Con.*Other—Con.*

National Catholic Educational Association, Washington, DC—Con.

United States Catholic Elementary and Secondary Schools. Annual.

National Education Association, Washington, DC

Estimates of School Statistics. Annual.

Rankings of the States. Annual.

Status of the American Public School Teacher, 1985-86. Quinquennial

Research Associates of Washington, Washington, DC

Higher Education Prices and Price Indexes. Annual.

State Profiles: Financing Public Higher Education. Annual.

Elections*U.S. Government*

Bureau of the Census

Congressional District Data:

1980 Census of Population and Housing, PHC80-4, Congressional Districts of the 98th and 99th Congress.

1980 Census of Population and Housing, PC80-SI-8, Congressional District Profiles, 98th Congress.

Current Population Reports. (Series P-20, Voting and Registration in the Election of November 19--. Biennial survey; and P-25, Projections of the Population of Voting Age for States: November 19--. Biennial projection.)

Commission on Civil Rights

The Voting Rights Act: Unfulfilled Goals. 1981.

Congress. Clerk of the House

Statistics of the Presidential and Congressional Election Years. Biennial.

Congress. Joint Committee on Printing

Congressional Directory. Biennial.

Other

The Council of State Governments, Lexington, KY

The Book of the States and its Supplement I, State Elective Officials and the Legislatures. Biennial.

State Legislative Leadership, Committees, and Staff. Biennial.

Elections Research Center, Washington, DC

America Votes. A handbook of contemporary American election statistics, compiled and edited by Richard M.

Elections—Con.*Other—Con.*

Elections Research Center, Washington, DC—Con.

Scammon and Alice V. McGillivray. Biennial.

Joint Center for Political Studies, Washington, DC

Black Elected Officials: A National Roster. Annual.

Michigan, The University of, Center for Political Studies, Institute for Social Research, Ann Arbor, MI

Who Voted and for Whom. Biennial.

Newspaper Enterprise Association, Inc., New York, NY

The World Almanac. Annual.

Electric Utilities—*see* Energy.

Emigration—*see* Immigration.

Employment—*see* Federal Government; Labor; and State and Local Government.

Energy—*see also* Communications; Manufactures; Minerals; and Transportation

U.S. Government

Bureau of the Census

Current Industrial Reports. Monthly, quarterly, and annual series on various industries.

Bureau of the Census and Bureau of Mines
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Virginia

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Washington

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Washington Research Council, 906 South Columbia, Suite 350, Olympia 98501 (206)357-6643

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West Virginia Chamber of Commerce, P.O. Box 2789, Charleston 25330 (304)342-1115

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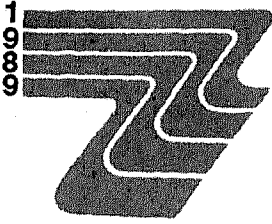
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Appendix II

Metropolitan Area Concepts and Components and Population of Metropolitan Statistical Areas

Statistics for metropolitan areas shown in the *Statistical Abstract* represent areas designated by the U.S. Office of Management and Budget (OMB) as standard metropolitan statistical areas (SMSA's) or metropolitan statistical areas (MSA's). Effective June 30, 1983, OMB changed the basic term from SMSA to MSA and revised the geographic definitions of many individual metropolitan areas; some new areas were defined, and some areas were redesignated as PMSA's or CMSA's (see further explanation below). The revised definitions appear in OMB press release 83-20 of June 27, 1983. The official standards for defining MSA's appeared in the Federal Register, January 3, 1980 (part 6). Revisions of MSA definitions are made periodically by OMB, mainly to add newly qualified MSA's or central cities.

The list of areas which follows (see p. 893) specifies components and population totals and refers to the definitions in effect on June 30, 1988. On that date, there were 266 MSA's, as well as 21 CMSA's comprising 73 PMSA's (including 4 MSA's, 1 CMSA, and 2 PMSA's in Puerto Rico). The figures in tables A, B, and C below (see pp. 891 and 892), exclude the areas in Puerto Rico.

The general concept of a metropolitan area is one of a large population nucleus, together with adjacent communities which have a high degree of economic and social integration with that nucleus. Standard definitions of metropolitan statistical areas were first issued in 1949 by the then Bureau of the Budget (predecessor of OMB), under the designation, "Standard Metropolitan Areas"; the term was changed to SMSA in 1959. From 1977 to 1981, the SMSA's were the responsibility of the Office of Federal Statistical Policy and Standards, Department of Commerce.

The criteria for the establishment and definition of SMSA's were modified in 1958, 1971, and 1975. The current standards were adopted in January 1980; they provide that each MSA must include at least:

- (a) One city with 50,000 or more inhabitants, or
- (b) A Census Bureau-defined urbanized area of at least 50,000 inhabitants *and* a total MSA population of at least 100,000 (75,000 in New England).

The standards provide that the MSA include as "central county(ies)" the county in which the central city is located, and adjacent counties, if any, with at least 50 percent of their population in the urbanized area. Additional "outlying counties" are included if they meet specified requirements of commuting to the central counties and of metropolitan character (such as population density and percent urban). In New England the MSA's are defined in terms of cities and towns rather than counties.

The 1980 standards provide that within metropolitan complexes of 1 million or more population, separate component areas are defined if specified criteria are met. Such areas are designated primary metropolitan statistical areas (PMSA's); and any area containing PMSA's is designated a consolidated metropolitan statistical area (CMSA). Besides the 21 CMSA's, there are 17 MSA's of 1 million or more in 1987 within which no component PMSA's are established. Of the 73 PMSA's, most were formerly SMSA's, but some were newly established in 1983.

Of the 21 CMSA's most were previously recognized as standard consolidated statistical areas (SCSA's), but 5 were formerly SMSA's within which PMSA's were newly qualified in 1983.

The standards adopted in 1980 were implemented in two stages. First, they were used to define a group of 36 new areas in June 1981. The 323 SMSA's as of June 30, 1981 were reported in the 1980 census tabulations and publications. Next, the boundaries of all SMSA's were reviewed in 1982-83 under the new standards after 1980 commuting data became available.

Revised 1980 standards for determining central cities and titles were implemented as part of the 1982-83 review. The largest city in each MSA is designated a "central city"; in addition there may be additional central cities if specified requirements are met. The title of each MSA consists of the name(s) of up to three of its central cities and the name of each State into which the MSA extends. However, a central city generally is not included in an MSA title unless it has at least one-third the population of the area's largest city. Prior to 1983, virtually all central cities appeared in area titles. An MSA may include other cities of 50,000 or more besides its central or title cities.

One report relating to the new MSA definitions has been published as *1980 Census of Population, Supplementary Report, Metropolitan Statistical Areas* (PC80-S1-18). The *State and Metropolitan Area Data Book, 1986* presents 298 data items for metropolitan areas from a wide variety of sources (see inside back cover).

New England MSA's and NECMA's.—Because MSA's in New England are defined in terms of cities and towns rather than counties, some statistical data that are available only for counties cannot be compiled for individual New England MSA's. Therefore, for New England areas, data are shown for both New England County Metropolitan Areas (NECMA's) and MSA's wherever possible. The NECMA's provide a county version of the New England areas, but do not replace New England MSA's as the standard areas. NECMA's are defined corresponding to the 3 CMSA's in New England and for the portion of the New York-Northern New Jersey-Long Island CMSA in Connecticut. There are no NECMA definitions corresponding to New England PMSA's.

Effect of changes in MSA definitions.—Changes in the definitions of MSA's since 1949 have consisted chiefly of (1) the recognition of new areas as, for example, cities reached 50,000 population; and (2) the addition of counties (or towns in New England) to existing MSA's as new census data showed them to qualify. Also, several formerly separate MSA's have been merged, and occasionally territory has been transferred from one MSA to another or from an MSA to nonmetropolitan territory. Comparisons of MSA figures over time may be affected in cases where the MSA definitions were changed. To maintain comparability, data for an earlier period have been revised in this volume where possible, to reflect the MSA boundaries of the more recent period. However, this could not always be done; for data based on a sample survey, in particular, it is usually not possible to revise the data to reflect changes in MSA definitions that occurred after the survey was made.

In tables A, B, and C that follow, data are given for MSA's as defined for specified dates, thereby indicating the extent of change in population and land area resulting from revisions in definitions.

TABLE A. NUMBER, POPULATION, AND LAND AREA OF MSA'S AS DEFINED AT SPECIFIED DATES FROM 1950 TO 1988

[The differences in population shown here for each year within each column of the table result entirely from net expansion of metropolitan territory through changes in the MSA definitions. The differences in population shown for each MSA definition (on the successive lines of the table) result entirely from population changes within that territory, unaffected by changes in MSA definitions. The changes in 1980 land area result entirely from net expansion of MSA territory. All data include Alaska and Hawaii and exclude Puerto Rico. Subtraction of any line of the table from the line below will show the net effect of change in population and land area undergone by the MSA's as the result of changes in definitions between the specified dates. Such changes typically occurred throughout the period, not on any single date, and may have included reductions in, as well as additions to, MSA territory. Census population data for 1970 include corrections made since publication. The area data for the 1950, 1960, and 1970 census definitions of MSA's differ from the data published in those censuses because of subsequent remeasurement of land areas and changes in inland water area occurring up to 1980.]

MSA DEFINITION AS OF—	Number of MSA's	POPULATION					Land area, 1980 ¹ sq. mi.
		1950, Apr. 1	1960, Apr. 1	1970, Apr. 1	1980, Apr. 1	1987, July 1	
1950 census (Mar. 1952).....	169	1 84,853,700	106,344,548	122,184,836	128,839,422	137,121,486	207,146
1960 census (Nov. 1960).....	212	89,316,903	2 112,885,139	130,882,661	140,793,427	151,089,104	309,112
1964 (Aug. 31) ³	217	81,844,168	115,876,343	134,700,911	145,503,863	156,482,710	348,861
1968 (Jan. 31) ⁴	230	93,629,986	118,413,604	137,976,252	149,811,057	161,438,836	377,581
1970 census (Feb. 28, 1971) ⁵	243	94,579,008	5 110,593,498	6 139,479,806	151,682,221	163,524,845	386,886
1974 (Apr. 30) ⁷	265	100,219,707	9 126,613,710	148,198,993	162,753,335	176,224,511	491,249
1977 (Dec. 31) ⁸	277	101,109,145	127,674,818	149,482,664	184,383,496	178,045,602	510,581
1980 census (June 30, 1981) ¹¹	318	104,172,853	131,318,714	153,693,767	189,430,623	183,565,854	566,157
1983 (June 30) ¹²	12 275	105,214,468	132,634,375	155,410,542	171,776,970	186,271,638	562,900
1984 (Oct. 12) ¹³	14 277	105,269,585	132,708,135	155,519,340	171,955,900	186,510,861	564,908
1985 (June 30) ¹⁴	15 280	105,411,428	132,887,134	155,700,823	172,169,456	186,688,500	570,833
1986 (June 30) ¹⁵	16 281	105,481,211	132,977,580	155,805,452	172,304,016	186,808,955	572,871
1987 (June 30) ¹⁶	17 281	105,502,909	133,003,445	155,832,688	172,334,547	186,840,747	573,412
1988 (June 30) ¹⁷	18 282	105,582,961	133,088,400	155,937,275	172,454,948	187,071,991	574,679

¹ Corresponds to total MSA population for 1950 published in 1950 census (84,500,680) plus Honolulu MSA. ² Corresponds to total MSA population for 1960 published in 1960 census (112,885,178), corrected by subtracting population (39) erroneously included in Franklin County, Ohio (Columbus MSA). ³ MSA's as defined for the 1963 economic censuses. ⁴ MSA's as defined for the 1967 economic censuses. ⁵ Corresponds to total 1960 population for 1970 MSA's published in 1970 census (119,694,754), corrected by subtracting 1,256 population from Lawrence-Haverhill MSA; this represented an addition to the 1960 population of Andover town made subsequent to the original census tabulations, and therefore not reflected in State or national totals. ⁶ Corresponds to total MSA population for 1970 published in 1970 census (139,418,811), plus net corrections made subsequent to publication. ⁷ MSA's as defined for the 1972 economic censuses. ⁸ Includes estimated 1950 population (32,060) of Anchorage Census Division, as defined in 1970. ⁹ Includes 1960 population (62,833) of Anchorage Census Division, as defined in 1970. ¹⁰ MSA's as defined for the 1977 economic censuses. ¹¹ MSA's as defined for the 1982 economic censuses. ¹² MSA's and CMSA's. ¹³ MSA's as defined for the 1987 economic censuses.

Source: U.S. Bureau of the Census, 1950-1970, *U.S. Census of Population*, vol. 1; 1980 *Census of Population*, vol. 1, chapters A and B and *Supplementary Report, Metropolitan Statistical Areas* (PC80-S1-18); and *Current Population Reports*, series P-26, No. 87-A.

TABLE B. NONMETROPOLITAN POPULATION AND LAND AREA AS DEFINED AT SPECIFIED DATES FROM 1950 TO 1988

[See headnote for table A, p. 891. Nonmetropolitan population and land area are equivalent to that portion of the total national population and land area not included within MSA's at the dates specified]

MSA DEFINITION AS OF—	POPULATION					Land area, 1980 (sq. mi.)
	1950, Apr. 1	1960, Apr. 1	1970, Apr. 1	1980, Apr. 1	1987, July 1	
1950 census (Mar. 1952)	66,472,098	72,878,827	81,117,195	97,706,383	106,274,510	3,332,143
1960 census (Nov. 1960)	62,008,835	66,438,036	72,319,370	85,752,378	92,306,892	3,230,177
1964 (Aug. 31)	59,681,810	63,446,832	68,601,120	81,041,942	86,903,286	3,190,428
1968 (Jan. 31)	57,695,812	60,909,571	65,325,779	76,734,748	81,957,161	3,181,708
1970 census (Feb. 28, 1971)	56,746,790	59,729,677	63,822,225	74,883,584	79,871,351	3,152,403
1974 (Apr. 30)	51,016,091	52,709,465	55,103,038	63,792,470	67,171,485	3,048,040
1977 (Dec. 31)	50,216,653	51,548,357	53,819,387	62,162,309	65,350,394	3,028,708
1980 census (June 30, 1981)	47,152,945	48,004,481	49,606,264	57,115,182	59,830,042	2,873,132
1983 (June 30)	46,111,330	46,688,800	47,891,489	54,768,835	57,124,358	2,878,389
1984 (Oct. 12)	46,056,213	46,615,040	47,782,691	54,589,905	56,885,335	2,874,381
1985 (June 30)	45,914,370	46,438,041	47,601,208	54,376,348	56,727,496	2,868,356
1986 (June 30)	45,844,587	46,345,595	47,486,579	54,241,789	56,486,041	2,866,418
1987 (June 30)	45,822,889	46,319,730	47,469,343	54,211,258	56,455,249	2,865,877
1988 (June 30)	45,742,937	46,234,775	47,364,756	54,090,857	56,324,015	2,864,610

TABLE C. PERCENT OF TOTAL U.S. POPULATION AND PERCENT OF LAND AREA INSIDE MSA'S AS DEFINED AT SPECIFIED DATES FROM 1950 TO 1988

[See headnote for table A, p. 891]

MSA DEFINITION AS OF—	PERCENT OF POPULATION					Percent of land area, 1980
	1950, Apr. 1	1960, Apr. 1	1970, Apr. 1	1980, Apr. 1	1987, July 1	
1950 census (Mar. 1952)	56.1	59.3	60.1	56.9	56.3	5.9
1960 census (Nov. 1960)	59.0	63.0	64.4	62.2	62.1	8.7
1964 (Aug. 31)	60.8	64.6	66.3	64.2	64.3	9.9
1968 (Jan. 31)	61.9	66.0	67.9	66.1	66.3	10.7
1970 census (Feb. 28, 1971)	62.5	66.7	68.6	67.0	67.2	10.9
1974 (Apr. 30)	66.2	70.6	72.9	71.8	72.4	13.9
1977 (Dec. 31)	66.8	71.2	73.5	72.6	73.2	14.4
1980 census (June 30, 1981)	68.8	73.2	75.6	74.8	75.4	16.0
1983 (June 30)	69.5	74.0	76.4	75.8	76.5	15.8
1984 (Oct. 12)	69.8	74.0	76.5	75.9	76.6	16.0
1985 (June 30)	69.7	74.1	76.6	76.0	76.7	16.1
1986 (June 30)	69.7	74.2	76.6	76.1	76.8	16.2
1987 (June 30)	69.7	74.2	76.7	76.1	76.8	16.2
1988 (June 30)	69.8	74.2	76.7	76.1	76.9	16.2

Source of tables B and C: U.S. Bureau of the Census, 1950-1970, *U.S. Census of Population*, vol. 1, chapters A and B, and *Supplementary Report, Metropolitan Statistical Areas*, (PC80-S1-18), and *Current Population Reports*, series P-26, No. 87-A.

New England County Metropolitan Areas (NECMA'S)

	1967 Popu- lation ¹ (1,000)		1987 Popu- lation ¹ (1,000)		1987 Popu- lation ¹ (1,000)
Bangor, ME	139	Lewiston-Auburn, ME	101	Portsmouth-Dover-	
Penobscot County	139	Androscoggin County	101	Rochester, NH	326
Boston-Lawrence-Salem-		Manchester-Nashua, NH	323	Rockingham County	228
Lowell-Brockton, MA	3,729	Hillsborough County	323	Strafford County	87
Essex County	651	New Bedford-Fall River-		Providence-Pawtucket-	
Middlesex County	1,374	Attleboro, MA	479	Woonsocket, RI	901
Norfolk County	610	Bristol County	479	Bristol County	48
Plymouth County	427	New Haven-Waterbury-		Kent County	160
Suffolk County	667	Meriden, CT	787	Providence County	581
Bridgeport-Stamford-		New Haven County	787	Washington County	103
Norwalk-Danbury, CT	618	New London-Norwich, CT	247	Springfield, MA	585
Fairfield County	618	New London County	247	Hampden County	445
Burlington, VT	132	Pittsfield, MA	140	Hampshire County	140
Chittenden County	127	Berkshire County	140	Worcester-Fitchburg-	
Grand Isle County	5	Portland, ME	233	Leominster, MA	685
Hartford-New Britain-		Cumberland County	233	Worcester County	685
Middletown-Bristol, CT	1,098				
Hartford County	837				
Middlesex County	136				
Tolland County	123				

¹As of July 1.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-26, No. 87-A; press release (CB88-157) and unpublished data.

APPENDIX II

Metropolitan Statistical Areas and their Components as of June 30, 1988

[Population estimated as of July 1, 1987. All MSA's are arranged alphabetically.
For relationship of PMSA's to their CMSA's, see CMSA entry]

	1987 Popu- lation (1,000)		1987 Popu- lation (1,000)		1987 Popu- lation (1,000)
Abilene, TX MSA	123	Atlanta, GA MSA	2,657	Bellingham, WA MSA	115
Taylor County.....	123	Barrow County.....	26	Whatcom County.....	115
Akron, OH PMSA	647	Butts County.....	16	Benton Harbor, MI MSA	165
Portage County.....	138	Cherokee County.....	81	Berrien County.....	165
Summit County.....	509	Clayton County.....	169	Bergen-Passaic, NJ PMSA	1,294
Albany, GA MSA	117	Cobb County.....	409	Bergen County.....	830
Dougherty County.....	102	Coweta County.....	48	Passaic County.....	464
Lee County.....	15	De Kalb County.....	539	Billings, MT MSA	118
Albany-Schenectady-Troy, NY MSA	846	Douglas County.....	71	Yellowstone County.....	118
Albany County.....	283	Fayette County.....	52	Blount-Gulfport, MS MSA	206
Greene County.....	42	Forsyth County.....	40	Hancock County.....	33
Montgomery County.....	52	Fullton County.....	639	Harrison County.....	173
Rensselaer County.....	151	Gwinnett County.....	302	Binghamton, NY MSA	260
Saratoga County.....	188	Henry County.....	50	Broome County.....	229
Schenectady County.....	150	Newton County.....	42	Tioga County.....	51
Albuquerque, NM MSA	486	Paulding County.....	50	Birmingham, AL MSA	917
Bernalillo County.....	486	Rockdale County.....	54	Blount County.....	39
Alexandria, LA MSA	140	Spalding County.....	35	Jefferson County.....	678
Rapides Parish.....	140	Walton County.....	35	St. Clair County.....	48
Allentown-Bethlehem, PA- NJ MSA	666	Atlantic City, NJ MSA	303	Shelby County.....	83
Carbon County, PA.....	55	Atlantic County.....	209	Walker County.....	69
Lehigh County, PA.....	285	Cape May County.....	94	Bismarck, ND MSA	86
Northampton County, PA.....	239	Augusta, GA-SC MSA	392	Burleigh County.....	60
Warren County, NJ.....	87	Columbia County, GA.....	60	Morton County.....	26
Altoona, PA MSA	132	McDuffie County, GA.....	20	Bloomington, IN MSA	104
Blair County.....	132	Richmond County, GA.....	193	Monroe County.....	104
Amarillo, TX MSA	197	Aiken County, SC.....	120	Bloomington-Normal, IL MSA	124
Potter County.....	105	Aurora-Elgin, IL PMSA	352	McLean County.....	124
Randall County.....	82	Kane County.....	315	Boise City, ID MSA	196
Anaheim-Santa Ana, CA PMSA	2,219	Kendall County.....	38	Ada County.....	196
Orange County.....	2,219	Austin, TX MSA	738	Boston, MA PMSA	2,842
Anchorage, AK MSA	223	Hayes County.....	64	Bristol County (pt.).....	38
Anchorage Borough.....	223	Travis County.....	552	Essex County (pt.).....	120
Anderson, IN MSA	133	Williamson County.....	122	Middlesex County (pt.).....	1,120
Madison County.....	133	Bakersfield, CA MSA	505	Norfolk County (pt.).....	599
Anderson, SC MSA	141	Kern County.....	505	Plymouth County (pt.).....	231
Anderson County.....	141	Baltimore, MD MSA	2,303	Suffolk County.....	667
Ann Arbor, MI PMSA	268	Anne Arundel County.....	413	Worcester County (pt.).....	67
Washtenaw County.....	268	Baltimore County.....	876	Boston-Lawrence-Salem, MA-NH CMSA	4,093
Anniston, AL MSA	122	Carroll County.....	118	Boston, MA PMSA.....	2,842
Calhoun County.....	122	Harford County.....	164	Brockton, MA PMSA.....	185
Appleton-Oshkosh-Neenah, WI MSA	309	Howard County.....	157	Lawrence-Haverhill, MA- NH PMSA.....	375
Calumet County.....	37	Queen Anne's County.....	31	Lowell, MA-NH PMSA.....	260
Outagamie County.....	136	Baltimore city.....	746	Nashua, NH PMSA.....	172
Winnebago County.....	137	Baton Rouge, LA MSA	538	Salem-Gloucester, MA PMSA.....	258
Asheville, NC MSA	171	Ascension Parish.....	59	Boulder-Longmont, CO PMSA	217
Buncombe County.....	171	East Baton Rouge Parish.....	386	Boulder County.....	217
Athens, GA MSA	142	Livinston Parish.....	21	Bradenton, FL MSA	184
Clarke County.....	78	West Baton Rouge Parish.....	73	Manatee County.....	184
Johnson County.....	29	Battle Creek, MI MSA	138	Brazoria, TX PMSA	187
Madison County.....	20	Calhoun County.....	138	Brazoria County.....	187
Oconee County.....	15	Beaumont-Port Arthur, TX MSA	371	Bremerton, WA MSA	174
		Hardin County.....	42	Kitsap County.....	174
		Jefferson County.....	244		
		Orange County.....	85		
		Beaver County, PA PMSA	191		
		Beaver County.....	191		

[See headnote, p. 893]

	1987 Popu- lation (1,000)		1987 Popu- lation (1,000)		1987 Popu- lation (1,000)
Bridgeport-Milford, CT		Chicago, IL PMSA	6,199	Ellis County	83
PMSA	444	Cook County	5,298	Kaufman County	54
Fairfield County (pt.)	334	Cu Page County	743	Rockwall County	26
New Haven County (pt.)	109	McHenry County	167		
Bristol, CT PMSA	78	Chicago-Gary-Lake County		Dallas-Fort Worth, TX	
Hartford County (pt.)	67	(IL, IL-IN-WI CMSA)	8,147	CMSA	3,725
Litchfield County (pt.)	11	Aurora-Elgin, IL PMSA	352	Dallas, TX PMSA	2,456
Brockton, MA PMSA	185	Chicago, IL PMSA	6,199	Fort Worth-Arlington, TX	
Bristol County (pt.)	19	Gary-Hammond, IN PMSA	604	PMSA	1,269
Norfolk County (pt.)	5	Joliet, IL PMSA	377	Danbury, CT PMSA	189
Plymouth County (pt.)	161	Kenosha, WI PMSA	120	Fairfield County (pt.)	165
		Lake County, IL PMSA	494	Litchfield County (pt.)	24
Brownsville-Harlingen, TX		Chico, CA MSA	169	Danville, VA MSA	109
MSA	264	Butte County	169	Pittsylvania County	65
Cameron County	264			Danville city	44
Bryan-College Station, TX		Cincinnati, OH-KY-IN PMSA	1,438	Davenport-Rock Island-	
MSA	118	Clermont County, OH	144	Moline, IA-IL MSA	367
Brazos County	118	Hamilton County, OH	874	Scott County, IA	156
Buffalo, NY PMSA	958	Warren County, OH	108	Henry County, IL	54
Erie County	958	Boone County, KY	54	Rock Island County, IL	157
		Campbell County, KY	82		
Buffalo-Niagara Falls, NY		Kenton County, KY	139	Dayton-Springfield, OH	
CMSA	1,175	Dearborn County, IN	38	MSA	939
Buffalo, NY PMSA	958	Cincinnati-Hamilton, OH-		Clark County	147
Niagara Falls, NY PMSA	216	KY-IN CMSA	1,715	Greene County	132
Burlington, NC MSA	105	Cincinnati, OH-KY-IN		Miami County	90
Alamance County	105	PMSA	1,438	Montgomery County	569
Burlington, VT MSA	127	Hamilton-Middletown, OH		Daytona Beach, FL MSA	332
Chittenden County (pt.)	120	PMSA	276	Volusia County	332
Franklin County (pt.)	3	Clarksville-Hopkinsville,		Decatur, AL MSA	131
Grand Isle County (pt.)	3	TN-KY MSA	157	Lawrence County	31
Canton, OH MSA	397	Montgomery County, TN	94	Morgan County	100
Carroll County	27	Christian County, KY	63	Decatur, IL MSA	125
Stark County	370	Cleveland, OH PMSA	1,851	Macon County	125
Casper, WY MSA	67	Cuyahoga County	1,443	Denver, CO PMSA	1,645
Natrona County	67	Geauga County	77	Adams County	260
Cedar Rapids, IA MSA	170	Lake County	214	Arapahoe County	367
Linn County	170	Medina County	117	Denver County	501
Champaign-Urbana-Rantoul,		Cleveland-Akron-Lorain, OH		Douglas County	43
IL MSA	173	CMSA	2,767	Jefferson County	433
Champaign County	173	Akron, OH PMSA	847	Denver-Boulder, CO CMSA	1,861
Charleston, SC MSA	502	Cleveland, OH PMSA	1,851	Boulder-Longmont, CO	
Berkeley County	130	Lorain-Elyria, OH PMSA	268	PMSA	217
Charleston County	293	Colorado Springs, CO MSA	390	Denver, CO PMSA	1,645
Dorchester County	79	El Paso County	390	Des Moines, IA MSA	365
Charleston, WV MSA	261	Columbia, MO MSA	107	Dallas County	30
Kanawha County	220	Boone County	107	Polk County	319
Putnam County	41	Columbia, SC MSA	451	Warren County	56
Charlotte-Gastonia-Rock		Lexington County	169	Detroit, MI PMSA	4,362
Hill, NC-SC MSA	1,091	Richland County	282	Lapeer County	72
Cabarrus County, NC	94	Columbus, GA-AL MSA	246	Livingston County	109
Gaston County, NC	173	Chattahoochee County, GA	17	Macomb County	707
Lincoln County, NC	47	Muscogee County, GA	178	Monroe County	134
Mecklenburg County, NC	466	Russell County, AL	51	Oakland County	1,044
Rowan County, NC	105	Columbus, OH MSA	1,320	St. Clair County	142
Union County, NC	82	Delaware County	60	Wayne County	2,152
York County, SC	124	Fairfield County	99	Detroit-Ann Arbor, MI	
Charlottesville, VA MSA	123	Franklin County	922	CMSA	4,629
Albemarle County	62	Licking County	125	Ann Arbor, MI PMSA	268
Fluvanna County	12	Madison County	36	Detroit, MI PMSA	4,362
Greene County	9	Pickaway County	46	Dothan, AL MSA	130
Charlottesville city	41	Union County	32	Dale County	49
Chattanooga, TN-GA MSA	432	Corpus Christi, TX MSA	360	Houston County	80
Hamilton County, TN	287	Nueces County	299	Dubuque, IA MSA	91
Marion County, TN	25	San Patricio County	61	Dubuque County	81
Sequatchie County, TN	9	Cumberland, MD-WV MSA	102	Duluth, MN-WI MSA	242
Catoosa County, GA	40	Allegheny County, MD	75	St. Louis County, MN	200
Dade County, GA	12	Mineral County, WV	27	Douglas County, WI	42
Walker County, GA	57	Dallas, TX PMSA	2,456	Eau Claire, WI MSA	137
Cheyenne, WY MSA	78	Collin County	219	Chippewa County	54
Laramie County	78	Dallas County	1,852	Eau Claire County	84
		Denton County	225		

[See headnote, p. 893]

	1987 Population (1,000)		1987 Population (1,000)		1987 Population (1,000)
El Paso, TX MSA	573	Fort Worth-Arlington, TX		Middletown, CT PMSA	85
El Paso County.....	573	PMSA	1,269	New Britain, CT PMSA.....	147
Elkhart-Goshen, IN MSA	150	Johnson County.....	95	Hickory, NC MSA	219
Elkhart County.....	150	Parker County.....	63	Alexander County.....	27
Elmira, NY MSA	90	Tarrant County.....	1,110	Burke County.....	76
Chemung County.....	90	Fresno, CA MSA	597	Catawba County.....	116
Enid, OK MSA	60	Fresno County.....	597	Honolulu, HI MSA	431
Garfield County.....	60	Gadsden, AL MSA	103	Honolulu County.....	531
Erie, PA MSA	279	Etowah County.....	103	Houma-Thibodaux, LA MSA ...	185
Erie County.....	279	Gainesville, FL MSA	205	Lafourche Parish.....	86
Eugene-Springfield, OR		Alachua County.....	180	Terrebonne Parish.....	89
MSA	285	Bradford County.....	25	Houston, TX PMSA	3,226
Lane County.....	285	Galveston-Texas City, TX		Fort Bend County.....	166
Evansville, IN-KY MSA	281	PMSA	211	Harris County.....	2,784
Posey County, IN.....	26	Galveston County.....	211	Liberty County.....	54
Vanderburgh County, IN.....	167	Gary-Hammond, IN PMSA	604	Montgomery County.....	169
Warlick County, IN.....	46	Lake County.....	481	Waller County.....	23
Henderson County, KY.....	42	Porter County.....	123	Houston-Galveston-	
Fall River, MA-RI PMSA	153	Glens Falls, NY MSA	112	Brazoria, TX CMSA	3,626
Bristol County, MA (pt.).....	135	Warren County.....	55	Brazoria, TX PMSA.....	187
Newport County, RI (pt.).....	18	Washington County.....	58	Galveston-Texas City, TX	
Fargo-Moorhead, ND-MN		Grand Forks, ND MSA	70	PMSA	211
MSA	147	Grand Forks County.....	70	Houston, TX PMSA.....	3,226
Cass County, ND.....	99	Grand Rapids, MI MSA	657	Huntington-Ashland,	
Clay County, MN.....	48	Kent County.....	462	WV-KY-OH MSA	323
Fayetteville, NC MSA	259	Ottawa County.....	175	Cabell County, WV.....	102
Cumberland County.....	259	Great Falls, MT MSA	78	Wayne County, WV.....	44
Fayetteville-Springdale, AR		Cascade County.....	78	Boyd County, KY.....	53
MSA	110	Greeley, CO MSA	135	Carter County, KY.....	25
Washington County.....	110	Weid County.....	135	Greenup County, KY.....	37
Fitchburg-Leominster, MA		Green Bay, WI MSA	188	Lawrence County, OH.....	82
MSA	96	Brown County.....	188	Huntsville, AL MSA	231
Middlesex County (pt.).....	3	Greensboro-Winston-		Madison County.....	231
Worcester County (pt.).....	94	Salem-High Point, NC		Indianapolis, IN MSA	1,229
Flint, MI MSA	435	MSA	916	Boone County.....	39
Genesee County.....	435	Davidson County.....	123	Hamilton County.....	98
Florence, AL MSA	136	Davie County.....	27	Hancock County.....	45
Colbert County.....	54	Forsyth County.....	265	Hendricks County.....	76
Lauderdale County.....	82	Guilford County.....	334	Johnson County.....	86
Florence, SC MSA	117	Randolph County.....	100	Marion County.....	790
Florence County.....	117	Stokes County.....	36	Morgan County.....	54
Fort Collins-Loveland, CO		Yadkin County.....	30	Shelby County.....	40
MSA	180	Greenville-Spartanburg, SC		Iowa City, IA MSA	86
Larimer County.....	180	MSA	612	Johnson County.....	86
Fort Lauderdale-Holly-		Greenville County.....	309	Jackson, MI MSA	147
wood-Pompano		Pickens County.....	88	Jackson County.....	147
Beach, FL PMSA	1,163	Spartanburg County.....	214	Jackson, MS MSA	396
Broward County.....	1,163	Hagerstown, MD MSA	116	Hinds County.....	258
Fort Myers-Cape Coral, FL		Washington County.....	116	Madison County.....	53
MSA	295	Hamilton-Middletown, OH		Rankin County.....	85
Lee County.....	295	PMSA	276	Jackson, TN MSA	78
Fort Pierce, FL MSA	215	Butler County.....	276	Madison County.....	78
Manatee County.....	91	Harrisburg-Lebanon-		Jacksonville, FL MSA	676
St. Lucie County.....	125	Carlisle, PA MSA	664	Clay County.....	97
Fort Smith, AR-OK MSA	178	Cumberland County.....	192	Duval County.....	662
Crawford County, AR.....	43	Dauphin County.....	239	Nassau County.....	44
Sebastian County, AR.....	100	Lebanon County.....	113	St. Johns County.....	75
Sequoyah County, OK.....	35	Perry County.....	40	Jacksonville, NC MSA	126
Fort Walton Beach, FL MSA ...	145	Hartford, CT PMSA	748	Onslow County.....	126
Okaloosa County.....	145	Hartford County (pt.).....	621	Janesville-Beloit, WI MSA	135
Fort Wayne, IN MSA	364	Litchfield County (pt.).....	8	Rock County.....	135
Allen County.....	302	Middlesex County (pt.).....	7	Jersey City, NJ PMSA	547
De Kalb County.....	35	New London County (pt.).....	9	Hudson County.....	547
Whitley County.....	28	Tolland County (pt.).....	102	Johnson City-Kingsport-	
		Hartford-New Britain-		Bristol, TN-VA MSA	443
		Middletown, CT CMSA ...	1,057	Carter County, TN.....	51
		Bristol, CT PMSA.....	78	Hawkins County, TN.....	45
		Hartford, CT PMSA.....	748	Sullivan County, TN.....	147
				Union County, TN.....	17

[See headnote, p. 893]

	1987 Popu- lation (1,000)		1987 Popu- lation (1,000)		1987 Popu- lation (1,000)
Washington County, TN	92	Laredo, TX MSA	124	Campbell County	47
Scott County, VA	25	Webb County	124	Lynchburg city	67
Washington County, VA	47				
Bristol city, VA	18	Las Cruces, NM MSA	129	Macon-Warner Robins, GA	
		Dona Ana County	129	MSA	283
Johnstown, PA MSA	252			Bibb County	156
Cambridge County	171	Las Vegas, NV MSA	600	Houston County	67
Somerset County	81	Clark County	600	Jones County	18
				Peach County	20
Joliet, IL PMSA	377	Lawrence, KS MSA	75		
Grundy County	32	Douglas County	75	Madison, WI MSA	347
Will County	345			Dane County	347
		Lawrence-Haverhill, MA-			
Joplin, MO MSA	134	NH PMSA	375	Manchester, NH MSA	148
Jasper County	90	Essex County MA (pt.)	273	Hillsborough County (pt.)	124
Newton County	44	Rockingham County, NH		Merrimack County (pt.)	14
		(pt.)	102	Rockingham County (pt.)	8
Kalamazoo, MI MSA	219				
Kalamazoo County	219	Lawton, OK MSA	119	Mansfield, OH MSA	128
		Comanche County	119	Richland County	128
Kankakee, IL MSA	98	Lewiston-Auburn, ME MSA	85		
Kankakee County	98	Androscoggin County (pt.)	85	McAllen-Edinburg-Mission,	
				TX MSA	379
Kansas City, MO-KS MSA	1,546	Lexington-Fayette, KY MSA	342	Hidalgo County	378
Cass County, MO	59	Bourbon County	19		
Clay County, MO	149	Clark County	29	Medford, OR MSA	143
Jackson County, MO	638	Fayette County	221	Jackson County	143
Lafayette County, MO	31	Jessamine County	30		
Platte County, MO	53	Scott County	22	Meibourne-Titusville-Palm	
Ray County, MO	22	Woodford County	19	Bay, FL MSA	375
Johnson County, KS	333			Brevard County	375
Leavenworth County, KS	65	Lima, OH MSA	156		
Miami County, KS	23	Allen County	112	Memphis, TN-AR-MS MSA	872
Wyandotte County, KS	174	Auglaize County	44	Shelby County, TN	819
				Tipton County, TN	37
Kenosha, WI PMSA	120	Lincoln, NE MSA	208	Crittenden County, AR	51
Kenosha County	120	Lancaster County	208	De Soto County MS	65
Killeen-Temple, TX MSA	234	Little Rock-North Little		Merced, CA MSA	166
Bell County	175	Rock, AR MSA	512	Merced County	166
Coryell County	58	Faulkner County	55		
		Loneoke County	39	Miami-Fort Lauderdale, FL	
Knoxville, TN MSA	594	Pulaski County	358	CMSA	2,954
Anderson County	70	Saline County	60	Fort Lauderdale-Hollywood-	
Blount County	84			Pompano Beach, FL	
Greninger County	17	Longview-Marshall, TX MSA	167	PMSA	1,163
Jefferson County	34	Gregg County	109	Miami-Hialeah, FL PMSA	1,791
Knox County	329	Harrison County	58	Dade County	1,791
Savoy County	48				
Union County	12	Lorain-Elyria, OH PMSA	268	Middlesex-Somerset-	
		Lorain County	268	Hunterdon, NJ PMSA	966
Kokomo, IN MSA	101			Hunterdon County	99
Howard County	84	Los Angeles-Anaheim-		Middlesex County	646
Tipton County	16	Riverside, CA CMSA	13,471	Somerset County	222
		Anaheim-Santa Ana, CA			
La Crosse, WI MSA	95	PMSA	2,219	Middletown, CT PMSA	85
La Crosse County	95	Los Angeles-Long Beach,		Middlesex County (pt.)	85
		CA PMSA	8,505		
Lafayette, IN MSA	125	Oxnard-Ventura, CA PMSA	828	Midland, TX MSA	108
Tippacance County	125	Riverside-San Bernardino,		Midland County	108
		CA PMSA	2,119		
Lafayette, LA MSA	212			Milwaukee, WI PMSA	1,389
Lafayette Parish	167	Los Angeles-Long Beach,		Milwaukee County	932
St. Martin Parish	46	CA PMSA	8,505	Ozaukee County	71
		Los Angeles County	8,505	Washington County	81
Lake Charles, LA MSA	172			Waukesha County	296
Calcasieu Parish	172	Louisville, KY-IN MSA	987		
		Bullitt County, KY	47	Milwaukee-Racine, WI	
Lake County, IL PMSA	484	Jefferson County, KY	679	CMSA	1,582
Lake County	484	Oldham County, KY	34	Milwaukee, WI PMSA	1,389
		Shelby County, KY	24	Racine, WI PMSA	173
Lakeland-Winter Haven, FL		Clark County, IN	90		
MSA	367	Floyd County, IN	64	Minneapolis-St. Paul,	
Polk County	367	Harrison County, IN	29	MN-WI MSA	2,336
				Anoka County, MN	229
Lancaster, PA MSA	404	Lowell, MA-NH PMSA	260	Carver County, MN	43
Lancaster County	404	Middlesex County, MA (pt.)	251	Chicago County, MN	29
		Hillsborough County, NH		Dakota County, MN	240
		(pt.)	9	Hennepin County, MN	996
Lansing-East Lansing, MI				Isanti County, MN	25
MSA	428	Lubbock, TX MSA	228	Ramsey County, MN	475
Clinton County	58	Lubbock County	228	Scott County, MN	53
Eaton County	92			Washington County, MN	133
Ingham County	280	Lynchburg, VA MSA	143	Wright County, MN	66
		Amherst County	29	St. Croix County, WI	48

[See headnote, p. 893]

1987 Popu- lation (1,000)		1987 Popu- lation (1,000)		1987 Popu- lation (1,000)	
Mobile, AL MSA	483	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	18,054	Oxnard-Ventura, CA PMSA	828
Baldwin County.....	95	Bergen-Passaic, NJ PMSA ...	1,294	Ventura County.....	528
Mobile County.....	388	Bridgeport-Milford, CT PMSA.....	444	Panama City, FL MSA	122
Modesto, CA MSA	327	Danbury, CT PMSA.....	189	Bay County.....	122
Stanislaus County.....	327	Jersey City, NJ PMSA.....	547	Parkersburg-Marletta, WV- OH MSA	156
Monmouth-Ocean, NJ PMSA	957	Middlesex-Somerset- Hunterdon, NJ PMSA.....	966	Wood County, WV.....	92
Monmouth County.....	554	Monmouth-Ocean, NJ PMSA.....	957	Washington County, OH.....	84
Ocean County.....	403	Nassau-Suffolk, NY PMSA ...	2,631	Pascagoula, MS MSA	128
Monroe, LA MSA	148	New York, NY PMSA.....	8,529	Jackson County.....	128
Ouachita Parish.....	146	Newark, NJ PMSA.....	1,391	Pawtucket-Woonsocket- Attleboro, RI-MA PMSA ...	322
Montgomery, AL MSA	297	Newark, NJ PMSA.....	1,391	Providence County, RI (pt.)...	227
Autauga County.....	35	Norwalk, CT PMSA.....	126	Bristol County, MA (pt.).....	80
Elmore County.....	49	Orange County, NY PMSA...	288	Norfolk County, MA (pt.)...	6
Montgomery County.....	213	Stamford, CT PMSA.....	193	Worcester County, MA (pt.)...	9
Muncie, IN MSA	121	Newark, NJ PMSA	1,391	Pensacola, FL MSA	344
Delaware County.....	121	Essex County.....	845	Escambia County.....	275
Muskegon, MI MSA	159	Morris County.....	419	Santa Rosa County.....	69
Muskegon County.....	159	Sussex County.....	124	Peoria, IL MSA	339
Naples, FL MSA	128	Union County.....	502	Peoria County.....	182
Collier County.....	128	Niagara Falls, NY PMSA	216	Tazewell County.....	124
Nashua, NH PMSA	172	Niagara County.....	216	Woodford County.....	33
Hillsborough County (pt.)...	155	Norfolk-Virginia Beach- Newport News, VA MSA	1,346	Philadelphia, PA-NJ PMSA	4,886
Rockingham County (pt.)...	17	Gloucester County.....	29	Bucks County, PA.....	532
Nashville, TN MSA	956	James City County.....	27	Chester County, PA.....	347
Cheatham County.....	28	York County.....	41	Delaware County, PA.....	586
Davidson County.....	506	Chesapeake city.....	141	Montgomery County, PA.....	880
Dickson County.....	34	Hampton city.....	128	Philadelphia County, PA.....	1,845
Robertson County.....	107	Newport News city.....	163	Burlington County, NJ.....	388
Rutherford County.....	42	Norfolk city.....	281	Camden County, NJ.....	496
Sumner County.....	100	Poquoson city.....	11	Gloucester County, NJ.....	213
Williamson County.....	78	Portsmouth city.....	110	Philadelphia-Wilmington- Trenton, PA-NJ-DE-MD CMSA	5,891
Wilson County.....	66	Suffolk city.....	52	Philadelphia, PA-NJ PMSA...	4,886
Nassau-Suffolk, NY PMSA	2,631	Virginia Beach city.....	350	Trenton, NJ PMSA.....	327
Nassau County.....	1,316	Williamsburg city.....	12	Vineland-Milville-Bridgeton, NJ PMSA.....	138
Suffolk County.....	1,315	Norwalk, CT PMSA	126	Wilmington, DE-NJ-MD PMSA.....	559
New Bedford, MA MSA	166	Fairfield County (pt.)...	126	Phoenix, AZ MSA	1,960
Bristol County (pt.).....	152	Oakland, CA PMSA	1,988	Maricopa County.....	1,960
Plymouth County (pt.).....	14	Alameda County.....	1,223	Pine Bluff, AR MSA	91
New Britain, CT PMSA	147	Contra Costa County.....	745	Jefferson County.....	91
Hartford County (pt.).....	147	Ocala, FL MSA	181	Pittsburgh, PA PMSA	2,105
New Haven-Meriden, CT MSA	519	Marion County.....	181	Allegheny County.....	1,382
Middlesex County (pt.).....	18	Odessa, TX MSA	127	Fayette County.....	153
New Haven County (pt.).....	501	Ector County.....	127	Washington County.....	211
New London-Norwich, CT- RI MSA	259	Oklahoma City, OK MSA	975	Westmoreland County.....	379
New London County, CT.....	228	Canadian County.....	74	Pittsburgh-Beaver Valley, PA CMSA	2,296
Windham County, CT (pt.)...	4	Cleveland County.....	163	Beaver County, PA PMSA...	191
Washington County, RI.....	26	Logan County.....	30	Pittsburgh, PA PMSA.....	2,105
New Orleans, LA	1,321	McCain County.....	823	Pittsfield, MA MSA	80
Jefferson Parish.....	474	Oklahoma County.....	61	Berkshire County (pt.)...	80
Orleans Parish.....	543	Olympia, WA MSA.....	151	Portland, ME MSA	210
St. Bernard Parish.....	68	Thurston County.....	151	Cumberland County (pt.)...	192
St. Charles Parish.....	44	Omaha, NE-IA MSA	816	York County (pt.).....	18
St. John The Baptist Parish...	42	Douglas County, NE.....	416	Portland, OR PMSA	1,168
St. Tammany Parish.....	150	Sarpy County, NE.....	97	Clackamas County.....	264
New York, NY PMSA	8,529	Washington County, NE.....	18	Multnomah County.....	564
Bronx County.....	1,214	Pottawatomie County.....	61	Washington County.....	281
Kings County.....	2,310	Olympia, WA MSA	151	Yamhill County.....	59
New York County.....	1,495	Thurston County.....	151	Portland-Vancouver, OR- WA CMSA	1,383
Putnam County.....	82	Omaha, NE-IA MSA	816	Portland, OR PMSA.....	1,168
Queens County.....	1,921	Douglas County, NE.....	416	Vancouver, WA PMSA.....	216
Richmond County.....	378	Sarpy County, NE.....	97		
Rockland County.....	285	Washington County, NE.....	18		
Westchester County.....	865	Pottawatomie County.....	61		
		Orange County, NY PMSA	288		
		Orange County.....	288		
		Orlando, FL MSA	935		
		Orange County.....	596		
		Osceola County.....	87		
		Seminole County.....	251		
		Owensboro, KY MSA	88		
		Daviess County.....	88		

[See headnote, p. 893]

	1987 Popu- lation (1,000)		1987 Popu- lation (1,000)		1987 Popu- lation (1,000)
Portsmouth-Dover- Rochester, NH-ME MSA	215	Rochester, MN MSA	98	Santa Rosa-Petaluma, CA PMSA	354
Rockingham County, NH (pt.).....	73	Olsted County.....	98	Vallejo-Fairfield-Napa, CA PMSA.....	404
Stratford County, NH (pt.).....	93	Rochester, NY MSA	979	San Jose, CA PMSA	1,415
York County, ME (pt.).....	50	Livingston County.....	59	Santa Clara County.....	1,415
Poughkeepsie, NY MSA	258	Monroe County.....	699	Santa Barbara-Santa Maria- Lompoc, CA MSA	341
Dutchess County.....	258	Ontario County.....	93	Santa Barbara County.....	341
Providence, RI PMSA	643	Orleans County.....	30	Santa Cruz, CA PMSA	222
Bristol County.....	48	Wayne County.....	88	Santa Cruz County.....	222
Kent County (pt.).....	157	Rockford, IL MSA	281	Santa Fe, NM MSA	111
Newport County (pt.).....	5	Boone County.....	29	Los Alamos County.....	18
Providence County (pt.).....	364	Winnebago County.....	252	Santa Fe County.....	92
Washington County (pt.).....	89	Sacramento, CA MSA	1,336	Santa Rosa-Petaluma, CA PMSA	354
Providence-Pawtucket-Fall River, RI-MA CMSA	1,118	El Dorado County.....	114	Sonoma County.....	354
Fall River, MA-RI PMSA.....	153	Placer County.....	149	Sarasota, FL MSA	256
Pawtucket-Woonsocket- Attleboro, RI-MA PMSA.....	322	Sacramento County.....	945	Sarasota County.....	256
Providence, RI PMSA.....	643	Yolo County.....	129	Savannah, GA MSA	241
Provo-Orem, UT MSA	242	Saginaw-Bay City-Midland, MI MSA	404	Chatham County.....	218
Utah County.....	242	Bay County.....	115	Effingham County.....	23
Pueblo, CO MSA	127	Midland County.....	73	Scranton-Wilkes-Barre, PA MSA	731
Pueblo County.....	127	Saginaw County.....	216	Columbia County.....	51
Racine, WI PMSA	173	St. Cloud, MN MSA	177	Lackawanna County.....	223
Racine County.....	173	Benton County.....	28	Luzerne County.....	332
Raleigh-Durham, NC MSA	665	Sharburne County.....	35	Monroe County.....	88
Durham County.....	169	Stearns County.....	115	Wyoming County.....	28
Franklin County.....	36	St. Joseph, MO MSA	85	Seattle, WA PMSA	1,796
Orange County.....	86	Buchanan County.....	85	King County.....	1,391
Wake County.....	375	St. Louis, MO-IL MSA	2,458	Snohomish County.....	405
Rapid City, SD MSA	80	Franklin County, MO.....	80	Seattle-Tacoma, WA CMSA	2,341
Pennington County.....	83	Jefferson County, MO.....	167	Seattle, WA PMSA.....	1,796
Reading, PA MSA	324	St. Charles County, MO.....	193	Tacoma, WA PMSA.....	545
Berks County.....	324	St. Louis County, MO.....	998	Sharon, PA MSA	123
Redding, CA MSA	136	St. Louis city, MO.....	422	Mercer County.....	123
Shasta County.....	136	Clinton County, IL.....	34	Sheboygan, WI MSA	102
Reno, NV MSA	232	Jersey County, IL.....	20	Sheboygan County.....	102
Washoe County.....	232	Madison County, IL.....	252	Sherman-Denison, TX MSA	100
Richland-Kennelwick-Pasco, WA MSA	150	Monroe County, IL.....	22	Grayson County.....	100
Benton County.....	113	St. Clair County, IL.....	271	Shreveport, LA MSA	364
Franklin County.....	36	Salem, OR MSA	265	Bossier Parish.....	92
Richmond-Petersburg, VA MSA	825	Marion County.....	215	Caddo Parish.....	272
Charles City County.....	6	Polk County.....	48	Sioux City, IA-NE MSA	116
Chesterfield County.....	178	Salem-Gloucester, MA PMSA	258	Woodbury County, IA.....	88
Olmstead County.....	21	Essex County (pt.).....	258	Dakota County, NE.....	17
Goodland County.....	13	Salinas-Seaside-Monterey, CA MSA	343	Sioux Falls, SD MSA	124
Hanover County.....	56	Monterey County.....	343	Minnehaha County.....	124
Henrico County.....	200	Salt Lake City-Ogden, UT MSA	1,055	South Bend-Mishawaka, IN MSA	242
New Kent County.....	11	Davis County.....	180	St. Joseph County.....	242
Powhatan County.....	14	Salt Lake County.....	714	Spokane, WA MSA	355
Prince George County.....	26	Weber County.....	160	Spokane County.....	355
Colonial Heights city.....	24	San Angelo, TX MSA	99	Springfield, IL MSA	191
Hopewell city.....	17	Tom Green County.....	99	Menard County.....	12
Petersburg city.....	41	San Antonio, TX MSA	1,307	Sangamon County.....	179
Richmond city.....	217	Bexar County.....	1,197	Springfield, MA MSA	517
Riverside-San Bernardino, CA PMSA	2,119	Comal County.....	51	Hampden County (pt.).....	435
Riverside County.....	915	Guadalupe County.....	59	Hampshire County (pt.).....	82
San Bernardino County.....	1,204	San Diego, CA MSA	2,286	Springfield, MO MSA	229
Roanoke, VA MSA	224	San Diego County.....	2,286	Christian County.....	29
Botetourt County.....	25	San Francisco, CA PMSA	1,590	Greene County.....	200
Roanoke County.....	75	Marin County.....	228	Stamford, CT PMSA	183
Roanoke city.....	100	San Francisco County.....	740	Fairfield County (pt.).....	183
Salem city.....	24	San Mateo County.....	622		
		San Francisco-Oakland-San Jose, CA CMSA	5,953		
		Oakland, CA PMSA.....	1,963		
		San Francisco, CA PMSA.....	1,590		
		San Jose, CA PMSA.....	1,415		
		Santa Cruz, CA PMSA.....	222		

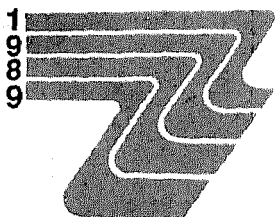
Metropolitan Statistical Areas

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[See headnote, p. 893]

	1987 Popu- lation (1,000)		1987 Popu- lation (1,000)		1987 Popu- lation (1,000)
State College, PA MSA	115	Tulsa County.....	519	Waterloo-Cedar Falls, IA	
Centre County.....	115	Wagoner County.....	51	MSA	149
Steubenville-Weirton, OH-		Tuscaloosa, AL MSA	144	Black Hawk County.....	128
WV MSA	149	Tuscaloosa County.....	144	Bremer County.....	24
Jefferson County, OH.....	83	Tyler, TX MSA	153	Wausau, WI MSA	111
Brooke County, WV.....	29	Smith County.....	153	Marathon County.....	111
Hancock County, WV.....	38	Utica-Rome, NY MSA	314	West Palm Beach-Boca	
Stockton, CA MSA	443	Herkimer County.....	67	Raton-DeRay Beach, FL	
San Joaquin County.....	443	Oneida County.....	247	MSA	790
Syracuse, NY MSA	647	Vailejo-Fairfield-Napa, CA		Palm Beach County.....	790
Madison County.....	67	PMSA	404	Wheeling, WV-OH MSA	173
Onondaga County.....	463	Napa County.....	105	Marshall County, WV.....	39
Oswego County.....	120	Solano County.....	299	Ohio County, WV.....	57
Tacoma, WA PMSA	545	Vancouver, WA PMSA	216	Belmont County, OH.....	77
Pierce County.....	545	Clark County.....	218	Wichita, KS MSA	475
Tallahassee, FL MSA	223	Victoria, TX MSA	75	Butler County.....	49
Gadsden County.....	45	Victoria County.....	75	Harvey County.....	31
Leon County.....	177	Vineland-Millville-Bridgeton,		Sedgwick County.....	395
Tampa-St. Petersburg-		NJ PMSA	138	Wichita Falls, TX MSA	126
Clearwater, FL MSA	1,965	Cumberland County.....	138	Wichita County.....	126
Hernando County.....	798	Visalia-Tulare-Porterville,		Williamsport, PA MSA	117
Hillsborough County.....	257	CA MSA	292	Lycoming County.....	117
Pasco County.....	257	Tulare County.....	292	Wilmington, DE-NJ-MD	
Pinellas County.....	823	Waco, TX MSA	189	PMSA	559
Terre Haute, IN MSA	132	McLennan County.....	189	New Castle County, DE.....	425
Clay County.....	25	Washington, DC-MD-VA		Salem County, NJ.....	65
Vigo County.....	108	MSA	3,648	Cecil County, MD.....	69
Texarkana, TX-Texarkana,		Washington, DC.....	622	Wilmington, NC MSA	118
AR MSA	120	Calvert County, MD.....	47	New Hanover County.....	116
Bowie County, TX.....	81	Charles County, MD.....	94	Worcester, MA MSA	410
Miller County, AR.....	39	Frederick County, MD.....	137	Worcester County (pt.).....	410
Toledo, OH MSA	611	Montgomery County, MD.....	686	Yakima, WA MSA	183
Fulton County.....	38	Prince Georges County,		Yakima County.....	183
Lucas County.....	463	MD.....	686	York, PA MSA	404
Wood County.....	110	Arlington County, VA.....	159	Adams County.....	72
Topeka, KS MSA	162	Fairfax County, VA.....	739	York County.....	331
Shawnee County.....	162	Loudoun County, VA.....	72	Youngstown-Warren, OH	
Trenton, NJ PMSA	327	Prince William County, VA.....	185	MSA	503
Mercer County.....	327	Stafford County, VA.....	53	Mahoning County.....	273
Tucson, AZ MSA	619	Alexandria city, VA.....	109	Trumbull County.....	230
Pima County.....	619	Fairfax city, VA.....	20	Yuba City, CA MSA	116
Tulsa, OK MSA	733	Falls Church city, VA.....	10	Sutter County.....	60
Creek County.....	67	Manassas city, VA.....	21	Yuba County.....	56
Osage County.....	40	Manassas Park city, VA.....	7		
Rogers County.....	56	Waterbury, CT MSA	213		
		Litchfield County (pt.).....	37		
		New Haven County (pt.).....	177		

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-26, No. 87-A; press release (CB88-157); and unpublished data.



Appendix III

Statistical Methodology and Reliability

Introduction.—The data presented in this *Statistical Abstract* came from many sources. The sources include not only Federal statistical bureaus and other organizations that collect and issue statistics as their principal activity, but also governmental administrative and regulatory agencies, private research bodies, trade associations, insurance companies, health associations, and private organizations such as the American Red Cross and philanthropic foundations. Consequently, the data vary considerably as to reference periods, definitions of terms and, for ongoing series, the number and frequency of time periods for which data are available.

The statistics presented were obtained and tabulated by various means. Some statistics are based on complete enumerations or censuses while others are based on samples. Some information is extracted from records kept for administrative or regulatory purposes (school enrollment, hospital records, securities registration, financial accounts, social security records, income tax returns, etc.), while other information is obtained explicitly for statistical purposes through interviews or by mail. The estimation procedures used vary from highly sophisticated scientific techniques, to crude "informed guesses."

Each set of data relates to a group of individuals or units of interest referred to as the *target universe* or *target population*, or simply as the *universe* or *population*. Prior to data collection the target universe should be clearly defined. For example, if data are to be collected for the universe of households in the United States, it is necessary to define a "household." The target universe may not be completely tractable. Cost and other considerations may restrict data collection to a *survey universe* of households on some available list, such list being inaccurate, out of date, defining "household" slightly differently, etc. This list is called a *survey frame* or *sampling frame*.

The data in many tables are based on data obtained for all population units, a *census*, or on data obtained for only a portion, or *sample*, of the population units. When the data presented are based on a sample, the sample is usually a scientifically selected *probability sample*. This is a sample selected from a list or sampling frame in such a way that every possible sample has a known chance of selection and usually each unit selected can be assigned a number, between zero and one, representing its likelihood or probability of selection.

For large-scale sample surveys, the probability sample of units is often selected as a multistage sample. The first stage of a multistage sample is the selection of a probability sample of large groups of population members, referred to as primary sampling units (PSU's). For example, in a national multistage household sample, PSU's are often counties or groups of counties. The second stage of a multistage sample is the selection, within each PSU selected at the first stage, of smaller groups of population units, referred to as secondary sampling units. In subsequent stages of selection, smaller and smaller nested groups are chosen until the ultimate sample of population units is obtained. To qualify a multistage sample as a probability sample, all stages of sampling must be carried out using probability sampling methods.

Prior to selection at each stage of a multistage (or a single-stage) sample, a list of the sampling units or sampling frame for that stage must be obtained. For example, for the first stage of selection of a national household sample, a list of the counties and county groups that form the PSU's must be obtained. For the final stage of selection, lists of households, and sometimes persons within the households, have to be compiled in the field. If a single-stage sample of the Nation's hospitals is to be selected, a list of hospitals must be obtained to use as the sampling frame. Unfortunately, it is virtually impossible to obtain a complete, up-to-date frame for a hospital survey. This is a problem incurred for most surveys of institutions and for many other types of surveys as well.

Wherever the quantities in a table refer to an entire universe, but are constructed from data collected in a sample survey, the table quantities are referred to as *sample estimates*. In constructing a sample estimate, an attempt is made to come as close as is feasible to the corresponding universe quantity that would be obtained from a complete census of the universe. Estimates based on a sample will, however, generally differ from the hypothetical census figures. Two classifications of errors are associated with estimates based on sample surveys: (1) *sampling error*—the error arising from the use of a sample, rather than a census, to estimate population quantities and (2) *nonsampling error*—those errors arising from nonsampling sources. As discussed below, the magnitude of the sampling error for an estimate can usually be estimated from the sample data. However, the

magnitude of the nonsampling error for an estimate can rarely be estimated. Consequently, actual error in an estimate exceeds the estimated error in the estimate.

The particular sample used in a survey is only one of a large number of possible samples of the same size which could have been selected using the same sampling procedure. Estimates derived from the different samples would, in general, differ from each other. The *standard error* (SE) is a measure of the variation among the estimates derived from all possible samples. The standard error is the most commonly used measure of the sampling error of an estimate. Valid estimates of the standard errors of survey estimates can usually be calculated from the data collected in a probability sample. For convenience, the standard error is sometimes expressed as a percent of the estimate and is called the relative standard error or *coefficient of variation* (CV). For example, an estimate of 200 units with an estimated standard error of 10 units has an estimated CV of 5 percent.

A sample estimate and an estimate of its standard error or CV can be used to construct interval estimates that have a prescribed confidence that the interval includes the average of the estimates derived from all possible samples with a known probability. To illustrate, if all possible samples were selected under essentially the same general conditions, and using the same sample design, and if an estimate and its estimated standard error were calculated from each sample, then:

1. Approximately 68% of the intervals from one standard error below the estimate to one standard error above the estimate would include the average estimate derived from all possible samples.
2. Approximately 90% of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average estimate derived from all possible samples.
3. Approximately 95% of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average estimate derived from all possible samples.

Thus, for a particular sample, one can say with the appropriate level of confidence (e.g., 90% or 95%) that the average of all possible samples is included in the constructed interval. Example of a confidence interval: An estimate is 200 units with a standard error of 10 units. An approximately 90% confidence interval (plus or minus 1.6 standard errors) is from 184 to 216.

All surveys and censuses are subject to nonsampling errors. Nonsampling errors are two kinds—*random* and *nonrandom*. Random nonsampling errors arise because of the varying interpretation of questions (by respondents or interviewers) and varying actions of coders, keyers, and other processors. Some randomness is also introduced when respondents must estimate values. These same errors usually have a nonrandom component. Nonrandom nonsampling errors result from total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), inability or unwillingness on the part of respondents to provide correct information, difficulty interpreting questions, mistakes in recording or keying data, errors of collection or processing, and coverage problems (overcoverage and undercoverage of the target universe). Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Estimating the magnitude of nonsampling errors would require special experiments or access to independent data and, consequently, the magnitudes are seldom available.

Nearly all types of nonsampling errors that affect surveys also occur in complete censuses. Since surveys can be conducted on a smaller scale than censuses, nonsampling errors can presumably be controlled more tightly. Relatively more funds and effort can perhaps be expended toward eliciting responses, detecting and correcting response error, and reducing processing errors. As a result, survey results can sometimes be more accurate than census results.

To compensate for suspected nonrandom errors, adjustments of the sample estimates are often made. For example, adjustments are frequently made for nonresponse, both total and partial. Adjustments made for either type of nonresponse are often referred to as *imputations*. Imputation for total nonresponse is usually made by substituting for the questionnaire responses of the nonrespondents the "average" questionnaire responses of the respondents. These imputations are usually made separately within various groups of sample members, formed by attempting to place respondents and nonrespondents together that have "similar" survey characteristics. Imputation for item nonresponse is usually made by substituting for a missing item the response to that item of a respondent having characteristics that are "similar" to those of the nonrespondent.

For an estimate calculated from a sample survey, the *total error* in the estimate is composed of the sampling error, which can usually be estimated from the sample, and the nonsampling error, which usually cannot be estimated from the sample. The total error present in a population quantity obtained from a complete census is composed of only nonsampling errors. Ideally, estimates of the

total error associated with data given in the *Statistical Abstract* tables should be given. However, due to the unavailability of estimates of nonsampling errors, only estimates of the levels of sampling errors, in terms of estimated standard errors or coefficients of variation, are available. To obtain estimates of the estimated standard errors from the sample of interest, obtain a copy of the referenced report which appears at the end of each table.

Principal data bases.—Beginning below are brief descriptions of 34 of the sample surveys and censuses that provide a substantial portion of the data contained in this *Abstract*.

SECTION 1. POPULATION

Source and Title: Bureau of the Census, *Census of Population*

Tables: See tables citing *Census of Population* in section 1 and also in sections 2, 4, 6, 8, 13, 14, 26, and 30.

Universe, Frequency, and Types of Data: Complete count of U.S. population conducted every 10 years since 1790. Data obtained on number and characteristics of inhabitants.

Type of Data Collection Operation: In 1970 and 1980, complete census for some items—age, sex, race, marital status and relationship to household head. In 1970, other items collected from a 5% and a 15% probability (systematic) sample of the population. In 1980, approximately 19% of the housing units were included in the sample.

Data Collection and Imputation Procedures: In 1970, extensive use of mail questionnaires in urban areas; personal interviews in most rural areas. In 1980, mail questionnaires were used in even more areas than in 1970, with personal interviews in the remainder. Extensive telephone and personal followup for nonrespondents was done in both censuses. Imputations were made for missing characteristics.

Estimates of Sampling Error: Sampling errors for data are estimated for all items collected by sample and vary by characteristic and geographic area. The CV's for national and State estimates are generally very small.

Other (nonsampling) Errors: Since 1950, evaluation programs have been conducted to provide information on the magnitude of some sources of nonsampling errors such as response bias and undercoverage in each census. Results from the evaluation program for the 1980 census indicate that coverage improved substantially over previous censuses; demographic analysis estimated the net undercount at between 1.0 and 2.2 percent in 1980.

Sources of Additional Material: U.S. Bureau of the Census, *The Coverage of Population in the 1980 Census*, PHC80-E4; *Content Reinterview Study: Accuracy of Data for Selected Population and Housing Characteristics as Measured by Reinterview*, PHC80-E2; *1980 Census of Population*, vol. 1, (PC80-1), Appendixes B, C, and D.

Source and Title: U.S. Bureau of the Census, *Current Population Survey (CPS)*

Tables: See tables citing *Current Population Reports* primarily in section 1, but also in sections 2, 3, 4, 8, 12, 13, 14, 23, and 30. Many Bureau of Labor Statistics' (BLS) tables in section 13 are CPS based.

Universe, Frequency, and Types of Data: Nationwide monthly sample survey of civilian noninstitutional population, 14 years old or over, to obtain data on employment, unemployment, and a number of other characteristics.

Type of Data Collection Operation: Multistage probability sample of about 55,800 households in 729 PSU's in 1988. Over-sampling in some States and the largest MSA's to improve reliability for those areas of employment data on annual average basis. A continual sample rotation system is used. Households are in sample 4 months, out for 8 months, and in for 4 more. Month-to-month overlap is 75%; year-to-year overlap is 50%.

Data Collection and Imputation Procedures: For first and fifth months that a household is in sample, personal interviews; other months, approximately, 85% of the data collected by phone. Imputation is done for both item and total nonresponse. Adjustment for total nonresponse is done by a predefined cluster of units, by MSA size and residence; for item nonresponse imputation varies by subject matter.

Estimates of Sampling Error: Estimated CV's on national annual averages for labor force, total employment, and nonagricultural employment, 2%; for total unemployment and agricultural employment, 1.0% to 2.5%. The estimated CV's for family income and poverty rate for all persons in 1986 are .5% and 1.5%, respectively. CV's for subnational areas, such as States, would be larger and would vary by area.

Other (nonsampling) Errors: Estimates of response bias on unemployment are not available, but estimates of unemployment are usually 5% to 9% lower than estimates from reinterviews. Four to 5.0% of sample households unavailable for interviews.

Sources of Additional Material: U.S. Bureau of the Census and Bureau of Labor Statistics, *Concepts and Methods Used in Labor Force Statistics from Current Population Survey* (Census

series P-23, No. 62; BLS Report No. 463) and Bureau of the Census, *Current Population Survey* (Tech. Paper 40) and Bureau of Labor Statistics, *BLS Handbook of Methods*, Chapter 1 (Bulletin 2285.)

(See section 3 below for information pertaining to the Supplement on Aging to the National Health Interview Survey.)

SECTION 2. VITAL STATISTICS

Source and Title: U.S. National Center for Health Statistics (NCHS), *Vital Registration System*

Tables: See tables citing *Vital Statistics of the United States*, 282 in section 5; 1019 in section 21; and 1385 in section 30.

Universe, Frequency, and Types of Data: Annual data on births and deaths in the United States. **Type of Data Collection Operation:** Mortality data based on complete file of death records, except 1972, based on 50% sample. Natality statistics 1951-1971, based on 50% sample of birth certificates, except a 20% to 50% in 1967, received by NCHS. Beginning 1972, data from some States received through Vital Statistics Cooperative Program and complete file used; data from other States based on 50% sample.

Data Collection and Imputation Procedures: Reports based on records from registration offices of all States, District of Columbia, New York City, Puerto Rico, Virgin Islands, and Guam.

Estimates of Sampling Error: For recent years, CV's for births are small due to large portion of total file in sample (except for very small estimated totals).

Other (nonsampling) Errors: Data on births and deaths believed to be at least 99% complete.

Sources of Additional Material: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, vol. I and vol. II, annual, and *Monthly Vital Statistics Report*.

SECTION 3. HEALTH AND NUTRITION

Source and Title: U.S. National Center for Health Statistics, *National Health Interview Survey (NHIS)*

Tables: 153, 175, 176, 182-187, 189, 190, 192, and in section 1, tables 42 and 43, section 4, table 217, and section 12, table 608.

Universe, Frequency, and Types of Data: Continuous data collection covering the civilian noninstitutional population to obtain information on personal and demographic characteristics, illnesses, injuries, impairments, and other health topics. In 1984, the Supplement on Aging (SOA) was added to the NHIS to collect data on the functional status of persons 55 years old and over living in the community. It included questions on characteristics which might affect their ability to live in the community.

Type of Data Collection Operation: Multistage probability sample of 42,000 households (in 376 PSU's) selected in groups of about four adjacent households.

Data Collection and Imputation Procedures: Personal household interviews with extensive followup of nonrespondents. Data are adjusted for nonresponse by imputation procedure based on "average" characteristics of persons in interviewed households in the same geographic area.

Estimates of Sampling Error: Estimated CV's: For physician visits by males, 1.5%; for workdays lost by males, 3.5%; for persons injured at home, 4.7%.

Other (nonsampling) Errors: Response rate was 95.7% in 1985 for the NHIS. For the SOA, response rate was 95% (89% responded entirely for themselves).

Sources of Additional Material: U.S. National Center for Health Statistics, "Current Estimates from the National Health Interview Survey, U.S., 1983," *Vital and Health Statistics*, series 10 and the "Supplement on Aging to the 1984 National Health Interview Survey," *Vital and Health Statistics*, series 1, No. 21, July 1987.

(See section 1 above for information pertaining to tables 93-96, and section 15 pertaining to table 144.)

SECTION 4. EDUCATION

Source and Title: U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Fall Enrollment in Institutions of Higher Education*; beginning 1986, *Integrated Postsecondary Data Survey (IPEDS)*, *Fall Enrollment*

Tables: 210, 247-250; and 269.

Universe, Frequency, and Types of Data: Annual survey of all institutions and branches listed in the *Directory* to obtain data on total enrollment by sex, level of enrollment, type of program, racial/ethnic characteristics (in alternate years) and attendance status of student, and on first-time students.

Type of Data Collection Operation: Complete census.

Data Collection and Imputation Procedures: Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data for an earlier year, adjusted for trends observed in earlier surveys, or data of similar institutions.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Approximately 93% response rate.

Sources of Additional Material: U.S. Department of Education, National Center for Education Statistics, *Fall Enrollment in Higher Education*, annual.

Source and Title: U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Financial Statistics of Institutions of Higher Education*

Tables: 200, 201, 247, and 257.

Universe, Frequency, and Types of Data: Annual survey of all institutions and branches listed in the *Education Directory*, *Colleges and Universities* to obtain data on financial status and operations, including current funds revenues, current funds expenditures, and physical plant assets.

Type of Data Collection Operation: Complete census.

Data Collection and Imputation Procedures: Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data for an earlier year, adjusted for trends observed in earlier HEGIS surveys, or data of similar institutions.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: For 1986, a 87% response rate. Imputed expenditures amounted to about 2.8% of total expenditures.

Sources of Additional Material: U.S. Department of Education, National Center for Education Statistics, *Financial Statistics of Institutions of Higher Education*, annual.

Source and Title: U.S. Department of Education, National Center for Education Statistics, *Higher Education General Information Survey (HEGIS)*, *Degrees and Other Formal Awards Conferred*

Tables: 266-269.

Universe, Frequency, and Types of Data: Annual survey of all institutions and branches listed in the *Education Directory*, *Colleges and Universities* to obtain data on earned degrees and other formal awards, conferred by field of study, level of degree, sex, and by racial/ethnic characteristics (in alternate years).

Type of Data Collection Operation: Complete census.

Data Collection and Imputation Procedures: Survey package is usually mailed in the spring with surveys due at varying dates in the summer and fall; mail and phone followup procedures for nonrespondents. Missing data are imputed by using data for an earlier year, adjusted for trends observed in earlier HEGIS surveys, or data of similar institutions.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: For 1985-86, approximately 93% response rate.

Sources of Additional Material: U.S. Department of Education, National Center for Education Statistics, *Earned Degrees Conferred*, annual.

(See sections 1 and 9 for information pertaining to the Bureau of the Census and section 3 above for the National Center for Health Statistics.)

SECTION 5. LAW ENFORCEMENT, COURTS, AND PRISONS

Source and Title: U.S. Federal Bureau of Investigation, *Uniform Crime Reporting (UCR) Program*

Tables: 277-281, 283, 284, and 292-295.

Universe, Frequency, and Types of Data: Monthly reports on the number of criminal offenses that become known to law enforcement agencies. Data are collected on crimes cleared by arrest, by age, sex, and race of offender, and on assaults on law enforcement officers.

Type of Data Collection Operation: Crime statistics are based on reports of crime data submitted either directly to the FBI by contributing law enforcement agencies or through cooperating State UCR programs.

Data Collection and Imputation Procedures: States with UCR programs collect data directly from individual law enforcement agencies and forward reports, prepared in accordance with UCR standards, to FBI. Accuracy and consistency edits are performed by FBI.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Coverage of 96% of the population (98% in SMSA's, 93% in "other cities," and 89% in rural areas) by UCR program, though varying number of agencies report. Some error is present through incorrect reporting.

Sources of Additional Material: U.S. Federal Bureau of Investigation, *Crime in the United States*.

Source and Title: U.S. Bureau of Justice Statistics (BJS), *National Crime Survey*

Tables: 285-289.

Universe, Frequency, and Types of Data: Monthly survey of individuals and households in the U.S. to obtain data on criminal victimization of those units for compilation of annual estimates.

Type of Data Collection Operation: National probability sample survey of about 59,000 interviewed households in 376 PSU's selected from a list of addresses from the 1970 census, supplemented by new construction permits and an area sample where permits are not required.

Data Collection and Imputation Procedures: Interviews are conducted every 6 months for 3 years for each household in the sample; 10,000 households are interviewed monthly. Personal interviews are used in the first, third, fifth, and seventh interviews; the intervening interviews are conducted by telephone whenever possible.

Estimates of Sampling Error: CV's in 1985: 2.2% for crimes of violence; 14.8% for estimate of rape counts; 5.5% for robbery counts; 2.5% for assault counts; 1.4% for personal larceny counts; 2.2% for burglary counts; 1.8% for household larceny; 1.3% for all household crimes; and 4.8% for motor vehicle theft counts.

Other (nonsampling) Errors: Respondent recall errors which may include reporting incidents for other than the reference period; interviewer coding and processing errors; and possible mistaken reporting or classifying of events. Adjustment is made for a household noninterview rate of about 4% and for a smaller within-household noninterview rate.

Sources of Additional Material: U.S. Bureau of Justice Statistics, *Criminal Victimization in the United States*, annual.

(See section 2 for details on table 282 and section 9 for details on table 302.)

SECTION 8. ELECTIONS

(See section 1 above for information pertaining to table 432.)

SECTION 9. STATE AND LOCAL GOVERNMENT FINANCES AND EMPLOYMENT

Source and Title: U.S. Bureau of the Census, *Census of Governments*

Tables: See tables in section 9 citing *Census of Governments*.

Universe, Frequency, and Types of Data: Survey of all governmental units in the U.S. conducted every 5 years to obtain data on government revenue, expenditures, debt, employment and employee retirement systems, property values, public school systems, and number, size, and structure of governments.

Type of Data Collection Operation: Complete census. List of units derived through classification of government units recently authorized in each State and identification, counting, and classification of existing local governments and public school systems.

Data Collection and Imputation Procedures: Data collected through field and office compilation of financial data from official records and reports for States and large local governments; mail canvass of selected data items, like State tax revenue and employee retirement systems; and collection of local government statistics through central collection arrangements with State governments.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Some nonsampling errors may arise due to possible inaccuracies in classification, response, and processing.

Sources of Additional Material: U.S. Bureau of the Census, *Census of Governments, 1982*, various reports, and *State Government Finances in 1986*, GF 86, No. 3.

Source and Title: U.S. Bureau of the Census, *Annual Surveys of State and Local Government*

Tables: See tables citing *Public Employment and Governmental Finances* in section 9; table 228 in section 4; table 302 in section 5; and table 586 in section 12.

Universe, Frequency, and Types of Data: Sample survey conducted annually to obtain data on revenue, expenditure, debt, and employment of State and local governments. Universe is all governmental units in the U.S. (about 82,000).

Type of Data Collection Operation: Sample of about 22,000 units includes all State governments, county governments with 50,000+ population, municipalities and townships in certain States with 25,000+ population, all school districts with 5,000+ enrollment in October 1981, and other governments meeting certain criteria; probability sample for remaining units. A supplemental survey provides complete coverage of 39,000 local government units for data on taxes and intergovernmental revenue.

Data Collection and Imputation Procedures: Field and office compilation of data from official records and reports for States and large local governments; central collection of local governmental financial data through a number of State governments; mail canvass of other units with mail and telephone followups of nonrespondents. Data for nonrespondents are imputed from previous year data or obtained from secondary sources, if available.

Estimates of Sampling Error: CV's for estimates of major employment and financial items are generally less than 2% for most States and less than 1.2% for the majority of States.

Other (nonsampling) Errors: Nonresponse rate is about 15% for number of units. Other possible errors may result from undetected inaccuracies in classification, response, and processing.

Sources of Additional Material: U.S. Bureau of the Census, *Public Employment in 1986*, GE 86, No. 1, *Governmental Finances in 1985-86*, GF 86, No. 5, and *Census of Governments, 1982*, various reports.

SECTION 10. FEDERAL GOVERNMENT

Source and Title: U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*

Tables: 506-510.

Universe, Frequency, and Types of Data: Annual study of unaudited individual income tax returns, Forms 1040, 1040A, and 1040EZ, filed by U.S. citizens and residents. Data provided on various financial characteristics by size of adjusted gross income, marital status, and by taxable and nontaxable returns. Data by State, based on 100% file, also include returns from 1040NR, filed by nonresident aliens plus certain self-employment tax returns.

Type of Data Collection Operation: Annual stratified probability sample alternates between approximately 83,000 and 120,000 returns broken into sample strata based on the larger of total income or total loss amounts as well as the size of business plus farm receipts. Sampling rates for sample strata varied from .02% to 100%.

Data Collection and Imputation Procedures: Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

Estimates of Sampling Error: Estimated CV's for tax year 1985: Number of returns in subgroups, ranged from .8% for returns under \$5,000 to .2% for returns over \$500,000; for adjusted gross income less deficit, .1%; and amount of income tax, .2%. (State data not subject to sampling error.)

Other (nonsampling) Errors: Processing errors and errors arising from the use of tolerance checks for the data.

Sources of Additional Material: U.S. Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns*, annual.

SECTION 12. SOCIAL INSURANCE AND HUMAN SERVICES

Source and Title: U.S. Social Security Administration, *Benefit Data*

Tables: 578 and 579.

Universe, Frequency, and Types of Data: All persons receiving monthly benefits under Title 11 of Social Security Act. Data on number and amount of benefits paid by type and State.

Type of Data Collection Operation: Data based on administrative records. Data based on 100% files, as well as 10% and 1% sample files.

Data Collection and Imputation Procedures: Records used consist of actions pursuant to applications for benefits, updated by subsequent post-entitlement actions.

Estimates of Sampling Error: Varies by size of estimate and sample file size.

Other (nonsampling) Errors: Processing errors, which are believed to be small.

Sources of Additional Material: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

Source and Title: U.S. Social Security Administration, *Supplemental Security Income (SSI) Program*

Tables: 604-607.

Universe, Frequency, and Types of Data: All eligible aged, blind, or disabled persons receiving SSI benefit payments under SSI program. Data include number of persons receiving federally administered SSI, amounts paid, and State administered supplementation.

Type of Data Collection Operation: Data based on administrative records.

Data Collection and Imputation Procedures: Data adjusted to reflect returned checks and overpayment refunds. For federally administered payments, actual adjusted amounts are used; for State administered, payments are deflated for average rate across all States.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Processing errors, which are believed to be small.

Sources of Additional Material: U.S. Social Security Administration, *Annual Statistical Supplement to the Social Security Bulletin*.

(See section 1 above for information pertaining to the Current Population Survey; section 3 above for information pertaining to the Supplement on Aging to the National Health Interview Survey; and section 9 for information pertaining to Annual Surveys of State and Local Government.)

SECTION 13. LABOR FORCE, EMPLOYMENT, AND EARNINGS

Source and Title: U.S. Bureau of Labor Statistics (BLS), *Current Employment Statistics (CES) Program*

Tables: 655-657, 661, 663; in section 17, table 845; in section 21, table 999; in section 22, table 1052; and in section 24, table 1145.

Universe, Frequency, and Types of Data: Monthly survey covering about 4 million nonagricultural establishments to obtain data on employment, hours, and earnings, by industry.

Type of Data Collection Operation: Probability sample survey of over 300,000 establishments in March 1987.

Data Collection and Imputation Procedures: Cooperating State agencies mail questionnaires to sample establishments to develop State and local estimates; information is forwarded to BLS where national estimates are prepared.

Estimates of Sampling Error: Estimated CV's in 1986: For average weekly hours paid, .1% and for average hourly earnings, .2%.

Other (nonsampling) Errors: Incorrect responses believed to be somewhat offsetting. Estimates of employment adjusted annually to reflect complete universe. Average adjustment is .2%.

Sources of Additional Material: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, Explanatory Notes, tables L-Q and *BLS Handbook of Methods*, Bulletin 2285 (Apr. 1988).

(See section 1 above for information pertaining to the Current Population Survey.)

SECTION 14. INCOME, EXPENDITURES, AND WEALTH

(See section 1 above for information pertaining to the Bureau of the Census.)

SECTION 15. PRICES

Source and Title: U.S. Bureau of Labor Statistics (BLS), *Consumer Price Index (CPI)*

Tables: 748, 749, 758-761, 763, 770, 774, 775, and in section 3, table 144.

Universe, Frequency, and Types of Data: Monthly survey of price changes of all types of consumer goods and services purchased by urban wage earners and clerical workers prior to 1978, and urban consumers thereafter. Both indexes continue to be published.

Type of Data Collection Operation: Prior to 1978, sample of various consumer items in 56 urban areas; thereafter, in 85 PSU's, except from January 1987 through March 1988, when 91 areas were sampled.

Data Collection and Imputation Procedures: Prices of consumer items are obtained from about 57,000 housing units, and 19,000 other reporters in 85 areas. Prices of most goods and services are obtained monthly in the 5 largest areas and every 2 months in others.

Estimates of Sampling Error: Estimates of standard errors are not available at present.

Other (nonsampling) Errors: Errors result from inaccurate reporting, difficulties in defining concepts and their operational implementation, lack of systematic method for incorporating new outlets in the sample, and introduction of product quality changes and new products.

Sources of Additional Material: U.S. Bureau of Labor Statistics, *The Consumer Price Index: 1987 Revision*, Report 736, and *BLS Handbook of Methods*, Bulletin 2285.

Source and Title: U.S. Bureau of Labor Statistics, *Producer Price Index (PPI)*

Tables: 748, 749, 753-757; in section 21, table 1040; in section 24, table 1148; and in section 26, table 1219.

Universe, Frequency, and Types of Data: Monthly survey of producing companies to determine price changes of all commodities produced for sale in commercial transactions in primary markets in the U.S. Data on agriculture, forestry, fishing, manufacturing, mining, gas, electricity, and public utilities.

Type of Data Collection Operation: Probability sample of over 3,000 commodities and about 16,000 respondents.

Data Collection and Imputation Procedures: Data are collected by mail. If transaction prices are not supplied, list prices are used. Some prices are obtained from trade publications, organized exchanges, and government agencies. To calculate index, price changes multiplied by their relative weights based on total net selling value of all commodities in 1982.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Not available at present.

Sources of Additional Material: U.S. Bureau of Labor Statistics, *BLS Handbook of Methods*, Bulletin 2285.

SECTION 17. BUSINESS ENTERPRISE

Source and Title: U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns and Statistics of Income Bulletin*
Tables: 846-850.

Universe, Frequency, and Types of Data: Annual study of unaudited income tax returns of non-farm sole proprietorships, Form 1040 with business or farm schedules. Data provided on various financial characteristics by industry.

Type of Data Collection Operation: Stratified probability sample of approximately 38,000 sole proprietorships for tax year 1985. The sample is classified based on presence or absence of certain business schedules; the larger of total income or loss; and size of business plus farm receipts. Sampling rates vary from .02% to 100%.

Data Collection and Imputation Procedures: Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

Estimates of Sampling Error: Estimated CV's for tax year 1983 (latest available): For sole proprietorships, number of nonfarm businesses, .24%; business receipts, 1.78%; net income, (less loss), 1.98%; and net income, 1.29%.

Other (nonsampling) Errors: Processing errors and errors arising from the use of tolerance checks for the data.

Sources of Additional Material: U.S. Internal Revenue Service, *Statistics of Income, Sole Proprietorship Returns and Statistics of Income Bulletin*, Vol. 7, No. 1 (Summer 1987).

Source and Title: U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns and Statistics of Income Bulletin*

Tables: 846-849, 851, and 852.

Universe, Frequency, and Types of Data: Annual study of unaudited income tax returns of partnerships, Form 1065. Data provided on various financial characteristics by industry.

Type of Data Collection Operation: Stratified probability sample of approximately 33,000 partnership returns filed for tax year 1985. The sample is classified based on combinations of gross receipts, total income or loss, and total assets, and on industry. Sampling rates vary from .1% to 100%.

Data Collection and Imputation Procedures: Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return.

Estimates of Sampling Error: Estimated CV's for tax year 1985 (latest available): For number of partnerships, .43%; business receipts, .63%; net income, 2.01%; and net loss, 1.38%.

Other (nonsampling) Errors: Processing errors and errors arising from the use of tolerance checks for the data.

Sources of Additional Material: U.S. Internal Revenue Service, *Statistics of Income, Partnership Returns and Statistics of Income Bulletin*, Vol. 7, No. 1 (Summer 1987).

Source and Title: U.S. Internal Revenue Service, *Corporation Income Tax Returns*

Tables: 846-849, and 856.

Universe, Frequency, and Types of Data: Annual study of unaudited corporation income tax returns, Forms 1120 and 1120 (L, M, S, F, IC-DISC, or FSC), filed by corporations or businesses legally defined as corporations. Data provided on various financial characteristics by industry and size of total assets, and business receipts.

Type of Data Collection Operation: Stratified probability sample of approximately 89,000 returns in 1985, broken into sample classes generally based on type of return, size of total assets, size of net income or deficit, and selected business activity. Sampling rates for sample strata varied from .4% to 100%.

Data Collection and Imputation Procedures: Computer selection of sample of tax return records. Data adjusted during editing for incorrect, missing, or inconsistent entries to ensure consistency with other entries on return and to achieve statistical definitions.

Estimates of Sampling Error: Estimated CV's for 1985: Number of returns in subgroups ranged from 1.2% with assets under \$100,000, to 0% with assets over \$100 mil.; for amount of net income and amount of income tax, .1%.

Other (nonsampling) Errors: Processing errors and errors arising from the use of tolerance checks for the data.

Sources of Additional Material: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

SECTION 18. COMMUNICATIONS

(See section 27 for information pertaining to table 912.)

SECTION 19. ENERGY

Source and Title: U.S. Energy Information Administration, *Residential Energy Consumption Survey*
Tables: 934-937, 967, and table 1249 in section 26.

Universe, Frequency, and Types of Data: Triennial survey of households and fuel suppliers. Data are obtained on energy-related household characteristics, housing unit characteristics, use of fuels, and energy consumption and expenditures by fuel type.

Type of Data Collection Operation: Probability sample of 6,752 eligible units in 149 PSU's. For responding units, fuel consumption and expenditure data obtained from fuel suppliers to those households.

Data Collection and Imputation Procedures: Personal interviews. Extensive followup of nonrespondents including mail questionnaires for some households. Adjustments for nonrespondents were made in weighting for respondents. Most item nonresponses were imputed.

Estimates of Sampling Error: Estimated CV's for household averages: For consumption or expenditures, 1.3%; for various fuels, values ranged from 1.9% for electricity to 5.3% for LPG.

Other (nonsampling) Errors: Household response rate of 84.2%. Non-consumption data were mostly imputed for mail respondents (3.0% of eligible units). Complete responses from fuel suppliers for various fuels ranged from 83.4% for electricity to 48.3% for fuel oil and kerosene.

Sources of Additional Material: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures, April 1984 through March 1985*.

SECTION 21. TRANSPORTATION—LAND

(See section 2 for information pertaining to table 1019, and section 15 for table 1040.)

SECTION 22. TRANSPORTATION—AIR AND WATER

Source and Title: U.S. Bureau of the Census, *Foreign Trade—Export Statistics*

Tables: See Bureau of the Census citations for export statistics in source notes in sections 22 and 29 and also tables 1171 and 1172 in section 24; 1184 in section 25; and 1396 in section 30.

Universe, Frequency, and Types of Data: The export declarations collected by Customs are processed each month to obtain data on the movement of U.S. merchandise exports to foreign countries. Data obtained include value, quantity, and shipping weight of exports by commodity, country of destination, Customs district of exportation, and mode of transportation.

Type of Data Collection Operation: Shipper's Export Declarations are required to be filed for the exportation of merchandise valued over \$1,500. Customs officials collect and transmit the documents to the Bureau of the Census on a flow basis for data compilation. Value data for shipments valued under \$1,501 are estimated, based on established percentages of individual country totals.

Data Collection and Imputation Procedures: Statistical copies of Shipper's Export Declarations are received on a daily basis from Customs ports throughout the country and subjected to a monthly processing cycle. They are fully processed to the extent they reflect items valued over \$1,500. Estimates for shipments valued at \$1,500 or less are made, based on established percentages of individual country totals.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Clerical and complex computer checks intercept most processing errors and minimize otherwise significant reporting errors; other nonsampling errors are caused by undercounting of exports to Canada due to the nonreceipt of some Shipper's Export Declarations.

Sources of Additional Material: U.S. Bureau of the Census, *U.S. Exports, Schedule E, Commodity by Country*, FT 410.

Source and Title: U.S. Bureau of the Census, *Foreign Trade—Import Statistics*

Tables: See Bureau of the Census citations for import statistics in source notes in sections 22 and 29 and also tables 1171 and 1172 in section 24; 1184 in section 25; and 1396 in section 30.

Universe, Frequency, and Types of Data: The import entry documents collected by Customs are processed each month to obtain data on the movement of merchandise imported into the United States. Data obtained include value, quantity, and shipping weight by commodity, country of origin, Customs district of entry, and mode of transportation.

Type of Data Collection Operation: Import entry documents are required to be filed for the importation of goods into the United States valued over \$1,000 or for articles which must be reported on formal entries. Customs officials collect and transmit statistical copies of the documents to the Bureau of the Census on a flow basis for data compilation. Estimates for shipments valued under \$1,001 and not reported on formal entries are based on established percentages of individual country totals.

Data Collection and Imputation Procedures: Statistical copies of import entry documents, received on a daily basis from Customs ports of entry throughout the country, are subjected to a monthly processing cycle. They are fully processed to the extent they reflect items valued at \$1,001 and over or items which must be reported on formal entries.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Verification of statistical data reporting by Customs officials prior to transmittal and a subsequent program of clerical and computer checks are utilized to hold non-sampling errors arising from reporting and/or processing errors to a minimum.

Sources of Additional Material: U.S. Bureau of the Census, *U.S. General Imports and Imports for Consumption, Schedule A, Commodity by Country*, FT 135.

SECTION 23. AGRICULTURE

Source and Title: U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), formerly Statistical Reporting Service (SRS), *Basic Area Frame Sample*

Tables: See tables citing NASS in source notes in section 23, which pertain to this or the following two surveys.

Universe, Frequency, and Types of Data: Two annual area sample surveys of U.S. farm operators: June agricultural survey collects data on planted acreage and livestock inventories; and a February Farm Costs and Returns survey that collects data on total farm production, expenses and specific commodity costs of production.

Type of Data Collection Operation: Stratified probability sample of about 16,000 land area units of about 1 sq. mile (range from .1 sq. mile in cities to several sq. miles in open grazing areas). Sample includes 60,000 parcels of agricultural land. About 20% of the sample replaced annually.

Data Collection and Imputation Procedures: Data collection is by personal enumeration. Imputation is based on enumerator observation or data reported by respondents having similar agricultural characteristics.

Estimates of Sampling Error: Estimated CV's range from 1-2% for regional estimates to 3-6% for State estimates of livestock inventories.

Other (nonsampling) Errors: Minimized through rigid quality controls on the collection process and careful review of all reported data.

Sources of Additional Material: U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

Source and Title: U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Multiple Frame Surveys*

Tables: See tables citing NASS in source notes in section 23, which pertain to this or the following survey.

Universe, Frequency, and Types of Data: Surveys of U.S. farm operators to obtain data on major livestock inventories, selected crop acreages and production, grain stocks, and farm labor characteristics; and to obtain farm economic data for price indexing.

Type of Data Collection Operation: Primary frame is obtained from general or special purpose lists, supplemented by a probability sample of land areas used to estimate for list incompleteness.

Data Collection and Imputation Procedures: Mail, telephone or personal interviews used for initial data collection. Mail nonrespondent followup by phone and personal interviews. Imputation based on average of respondents.

Estimates of Sampling Error: Estimated CV for number of hired farm workers is about 3%. Estimated CV's range from 1-2% for regional estimates to 3-6% for State estimates of livestock inventories.

Other (nonsampling) Errors: In addition to above, replicated sampling procedures used to monitor effects of changes in survey procedures.

Sources of Additional Material: U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

Source and Title: U.S. Department of Agriculture, National Agricultural Statistics Service (NASS), *Objective Yield Surveys*

Tables: See tables citing NASS in source notes in section 23, which pertain to this or the preceding survey.

Universe, Frequency, and Types of Data: Surveys for data on corn, cotton, potatoes, soybeans, wheat, and rice to forecast and estimate yields.

Type of Data Collection Operation: Random location of plots in probability sample of fields. Fields selected in June from Basic Area Frame Sample (see above).

Data Collection and Imputation Procedures: Enumerators count and measure plant characteristics in sample fields. Production measured from plots at harvest. Harvest loss measured from post harvest gleanings.

Estimates of Sampling Error: CV's for national estimates of production are about 2-3%.

Other (nonsampling) Errors: In addition to above, replicated sampling procedures used to monitor effects of changes in survey procedures.

Sources of Additional Material: U.S. Department of Agriculture, SRS, *Scope and Methods of the Statistical Reporting Service*, (name changed to National Agricultural Statistics Service), Miscellaneous Publication No. 1308, September 1983 (revised).

(See section 1 above for information pertaining to the Census of Population and Current Population Survey.)

SECTION 26. CONSTRUCTION AND HOUSING

Source and Title: U.S. Bureau of the Census, *Monthly Survey of Construction*

Tables: 1228, 1229, and 1231-1234.

Universe, Frequency, and Types of Data: Survey conducted monthly of newly constructed housing units (excluding mobile homes, and nonhousekeeping residential buildings such as motels, hotels, courts and cabins). Data are collected on the start, completion, and sale of housing. (Annual figures are aggregates of monthly estimates.)

Type of Data Collection Operation: Probability sample of housing units obtained from building permits selected from 16,000 permit-issuing places through 1984 and, beginning in 1985, 17,000 places. For nonpermit places, multistage probability sample of new housing units selected in 169 PSU's. In those areas, all roads are canvassed in selected enumeration districts.

Data Collection and Imputation Procedures: Data are obtained by telephone inquiry and field visit.

Estimates of Sampling Error: Estimated CV of 3% to 4% for estimates of national totals, but are as high as 20% for estimated totals of more detailed characteristics, such as housing units in multiunit structures.

Other (nonsampling) Errors: Response rate is over 90% for most items. Nonsampling errors are attributed to definitional problems, differences in interpretation of questions, incorrect reporting, inability to obtain information about all cases in the sample, and processing errors.

Sources of Additional Material: U.S. Bureau of the Census, *Construction Reports*, series C20, *Housing Starts*; C22, *Housing Completions*; C25, *New One-Family Houses Sold and For Sale*; and C27, *Price Index of New One-Family Houses Sold*.

Source and Title: U.S. Bureau of the Census, *Value of New Construction Put in Place*

Tables: 1221-1223.

Universe, Frequency, and Types of Data: Survey conducted monthly on total value of all construction put in place in the current month, both public and private projects. Construction values include costs of materials and labor, contractors' profits, overhead costs, cost of architectural and engineering work, and miscellaneous project costs. (Annual figures are aggregates of monthly estimates.)

Type of Data Collection Operation: Varies by type of activity: Total cost of private one-family houses started each month is distributed into value put in place using fixed patterns of monthly construction progress; using a multistage probability sample, data for private multifamily housing are obtained by mail from owners of multiunit projects. Data for residential additions and alterations are obtained in a quarterly survey measuring expenditures; monthly estimates are interpolated from quarterly data. Estimates of value of private nonhousekeeping, nonresidential buildings, and State and local government construction are obtained by mail from owners (or agents) for a probability sample of projects. Estimates of farm nonresidential construction expenditures are based on U.S. Department of Agriculture annual estimates of construction; public utility estimates are obtained from reports submitted to Federal regulatory agencies and from private utility companies; estimates for all other private construction (nonbuilding) are obtained by phasing F. W. Dodge contract award data; estimates of Federal construction are based on monthly data supplied by Federal agencies.

Data Collection and Imputation Procedures: See "Type of Data Collection Operation." Imputation accounts for approximately 20% of estimated value of construction each month.

Estimates of Sampling Error: CV estimates for private nonresidential building construction range from 3% for estimated value of industrial buildings to 10% for miscellaneous buildings. CV is approximately 2% for total new private nonresidential buildings.

Other (nonsampling) Errors: For directly measured data series based on samples, some nonsampling errors may arise from processing errors, imputations, and misunderstanding of questions. Indirect data series are dependent on the validity of the underlying assumptions and procedures.

Sources of Additional Material: U.S. Bureau of the Census, *Construction Reports*, series C30, *Value of New Construction Put in Place*.

Source and Title: U.S. Bureau of the Census, *Census of Housing*

Tables: 1243 and 1248.

Universe, Frequency, and Types of Data: Census of all occupied and vacant housing, excluding group quarters, conducted every 10 years as part of the decennial census (see section 1 above) to determine characteristics of U.S. housing.

Type of Data Collection Operation: For 1970 and 1980, a complete count of 12 housing items. In 1970, other items collected from 5% and 15% probability samples selected from two sets of detailed questions on housing (these two sets having some common items). In 1980, approximately 19% of the housing units were included in the sample.

Data Collection and Imputation Procedures: In 1970, a self-enumeration census using a mail-out/mail-back procedure was used in most areas. In 1980, mail questionnaires were used - in even more areas than in 1970, with personal interviews in the remainder. Followup for nonrespondents and identification of vacant units done by phone and personal visit.

Estimates of Sampling Error: Sampling errors for data are estimated for all items collected by sample and vary by characteristic and geographic area.

Other (nonsampling) Errors: Evaluation studies for 1980 estimated the underenumeration of occupied housing units at 1.5%. The missed rate in 1980 for all units was 2.6% or approximately 2.3 million units, 1 million of which were vacant housing units.

Sources of Additional Material: U.S. Bureau of the Census, *1980 Census of Population and Housing, The Coverage of Housing in the 1980 Census*, PHC80-E1, July 1985.

Source and Title: U.S. Bureau of the Census, *American Housing Survey*

Tables: See tables citing *American Housing Survey* in source notes.

Universe, Frequency, and Types of Data: Conducted nationally in the fall in odd numbered years to obtain data on the approximately 100 million occupied or vacant housing units in the U.S. (group quarters are excluded). Data include characteristics of occupied housing units, vacant units, new housing and mobile home units, financial characteristics, recent mover households, housing and neighborhood quality indicators, and energy characteristics.

Type of Data Collection Operation: The national sample was a multistage probability sample with about 44,300 units eligible for interview in 1985. Sample units, selected within 394 PSU's, were surveyed over a 5-month period.

Data Collection and Imputation Procedures: For 1985, the survey was conducted by personal interviews. The interviewers obtained the information from the occupants or, if the unit was vacant, from informed persons such as landlords, rental agents, or knowledgeable neighbors.

Estimates of Sampling Error: For the national sample, illustrations of the S.E. of the estimates are provided in the appendix B of the 1985 report. As an example, the estimated CV is about .5% for the estimated percentage of owner occupied units with 2 persons.

Other (nonsampling) Errors: Response rate was about 96%. Nonsampling errors may result from incorrect or incomplete responses, errors in coding and recording, and processing errors. For the 1985 national sample, approximately 6% of the total housing inventory was not adequately represented by the AHS sample.

Sources of Additional Material: U.S. Bureau of the Census, *Current Housing Reports*, series H-150 and H-170, *American Housing Survey*.

(See section 1 above for information pertaining to the Census of Population and section 15 pertaining to table 1239.)

SECTION 27. MANUFACTURES

Source and Title: U.S. Bureau of the Census, *Census of Manufactures*

Tables: See tables citing *Census of Manufactures* in source notes in section 27 and also table 912 in section 18 and tables 1394 and 1399 in section 30.

Universe, Frequency, and Types of Data: Conducted every five years to obtain information on labor materials, capital input and output characteristics, plant location, and legal form of organization for all plants in the United States with one or more employees. Universe was 350,000 manufacturing establishments in 1982.

Type of Data Collection Operation: Complete enumeration of data items obtained from 205,000 firms. Administrative records from Internal Revenue Service and Social Security Administration are used for 145,000 smaller single-location firms, which were determined by various cutoffs based on size and industry.

Data Collection and Imputation Procedures: Five mail and telephone followups for larger nonrespondents. Data for small single-location firms (generally those with fewer than 10 employees) not mailed census questionnaires were estimated from administrative records of IRS and SSA.

Data for nonrespondents were imputed from related responses or administrative records from IRS and SSA. Approximately 3.7% of total value of shipments was represented by fully imputed records in 1977 (1982 not available).

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Based on evaluation studies, estimates of nonsampling errors for 1972 were about 1.3% for estimated total payroll; 2% for total employment; and 1% for value of shipments. Estimates for later years are not available.

Sources of Additional Material: U.S. Bureau of the Census, *Census of Manufactures, 1977*, vol. 1, *Subject and Special Statistics*.

Source and Title: U.S. Bureau of the Census, *Annual Survey of Manufactures*

Tables: See tables citing *Annual Survey of Manufactures* in source notes.

Universe, Frequency, and Types of Data: Conducted annually to provide basic measures of manufacturing activity for intercensal years for all manufacturing establishments having one or more paid employees.

Type of Data Collection Operation: Sampling frame is 350,000 establishments in the 1982 Census of Manufactures (see above), supplemented by Social Security Administration lists of new manufacturers and new manufacturing establishments of multi-establishment companies identified annually by the Census Bureau's Company Organization Survey. A probability sample of 55,000 establishments is selected. All establishments of companies with more than \$550 million of manufacturing shipments in 1982 are included with certainty. All establishments with 250+ employees are also included along with a probability sample of smaller establishments.

Data Collection and Imputation Procedures: Survey is conducted by mail with phone and mail followups of nonrespondents. Imputation (for all nonresponse items) is based on previous year reports, or for new establishments in survey, on industry averages.

Estimates of Sampling Error: Estimated CV's for number of employees, new expenditure, and for value added totals are given in annual publications. For U.S. level industry statistics, most estimated CV's are 2% or less, but vary considerably for detailed characteristics.

Other (nonsampling) Errors: Response rate is about 85%. Nonsampling errors include those due to collection, reporting, and transcription errors, many of which are corrected through computer and clerical checks.

Sources of Additional Material: U.S. Bureau of the Census, *Annual Survey of Manufactures*, and Technical Paper 24.

SECTION 28. DOMESTIC TRADE AND SERVICES

Source and Title: U.S. Bureau of the Census, *Census of Wholesale Trade, Census of Retail Trade, Census of Service Industries*

Tables: See tables citing the above censuses in source notes in section 28 and table 1399 in section 30.

Universe, Frequency, and Types of Data: Conducted every five years to obtain data on number of establishments, number of employees, total payroll size, and total sales. In 1977, universe was all employer establishments primarily engaged in wholesale trade, and employer and nonemployer establishments in retail trade or service industries. In 1982, for service industries and retail trade summary data for all establishments are available; kind of business detail by State is available only for establishments with payroll.

Type of Data Collection Operation: All wholesale firms with paid employees surveyed; all retail and service large employer firms surveyed (i.e. all employer firms above the payroll size cutoff established to separate large from small employers) plus a 10-percent sample of smaller employer firms. Firms with no employees were not required to file a census return.

Data Collection and Imputation Procedures: Mail questionnaire is utilized with both mail and telephone followups for nonrespondents. Data for nonrespondents and "nonselected" firms in retail trade and service industries are obtained from administrative records of IRS and the Social Security Administration.

Estimates of Sampling Error: Not applicable.

Other (nonsampling) Errors: Response rate in 1982 of 87% for single establishment firms; 91% for multi-establishment firms. Item response ranged from 60% to 90% with higher rates for less detailed questions.

Sources of Additional Material: U.S. Bureau of the Census, Appendix A of *Census of Retail Trade; Census of Service Industries; Census of Wholesale Trade; and History of the 1982 Economic Censuses*, February 1987.

Source and Title: U.S. Bureau of the Census, *Current Business Surveys*

Tables: 1328-1331, and 1343.

Universe, Frequency, and Types of Data: Provides monthly estimates of retail sales by kind of business and geographic area, and end-of-month inventories of retail stores; wholesale sales and end-of-month inventories; and annual receipts of selected service industries. (Service monthly survey discontinued after Dec. 1981.)

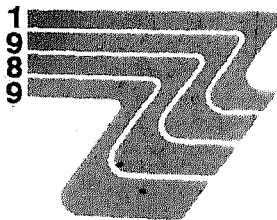
Type of Data Collection Operation: Probability sample of all firms from a list frame and, additionally, for retail and service an area frame. List frame is the Bureau's Standard Statistical Establishment List (SSEL) updated quarterly for recent "births" from the Social Security Administration list of establishments having an employer identification number. The largest firms are included monthly; a sample of others is included every three months on a rotating basis. The area frame covers businesses not subjected to sampling on the list frame.

Data Collection and Imputation Procedures: Data are collected by mail questionnaire with telephone followups for nonrespondents. Imputation made for each nonresponse item and each item failing edit checks.

Estimates of Sampling Error: For 1986, CV's are about .7% for estimated total retail sales, 1.5% for wholesale sales, 1.3% for wholesale inventories. For dollar volume of receipts, CV's from the *Service Annual Survey* vary by kind of business and range between 1.5% to 15.0%. Sampling errors are shown in monthly publications.

Other (nonsampling) Errors: Imputation rates are about 18%-23% for monthly retail sales and wholesale sales and about 25%-30% for monthly wholesale inventories and 14% for the *Service Annual Survey*.

Sources of Additional Material: U.S. Bureau of the Census, *Current Business Reports*, *Monthly Retail Trade*, *Monthly Wholesale Trade*, and *Service Annual Survey*.



Appendix IV

Index to Tables Having Historical Statistics, Colonial Times to 1970 Series

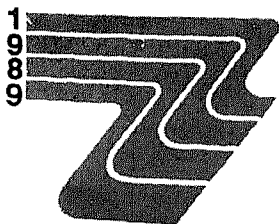
[The most recent historical supplement to the *Statistical Abstract* is the bicentennial edition, *Historical Statistics of the United States, Colonial Times to 1970* (see inside back cover). Listed below are statistical time series (identified by number) appearing in this edition, for which tables in the *Statistical Abstract* present comparable figures. Historical series are listed only where related or comparable data are available for one or more years later than 1970. In a few instances, it may be necessary to combine figures shown in the *Abstract* to obtain totals comparable to the series shown in *Historical Statistics*]

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